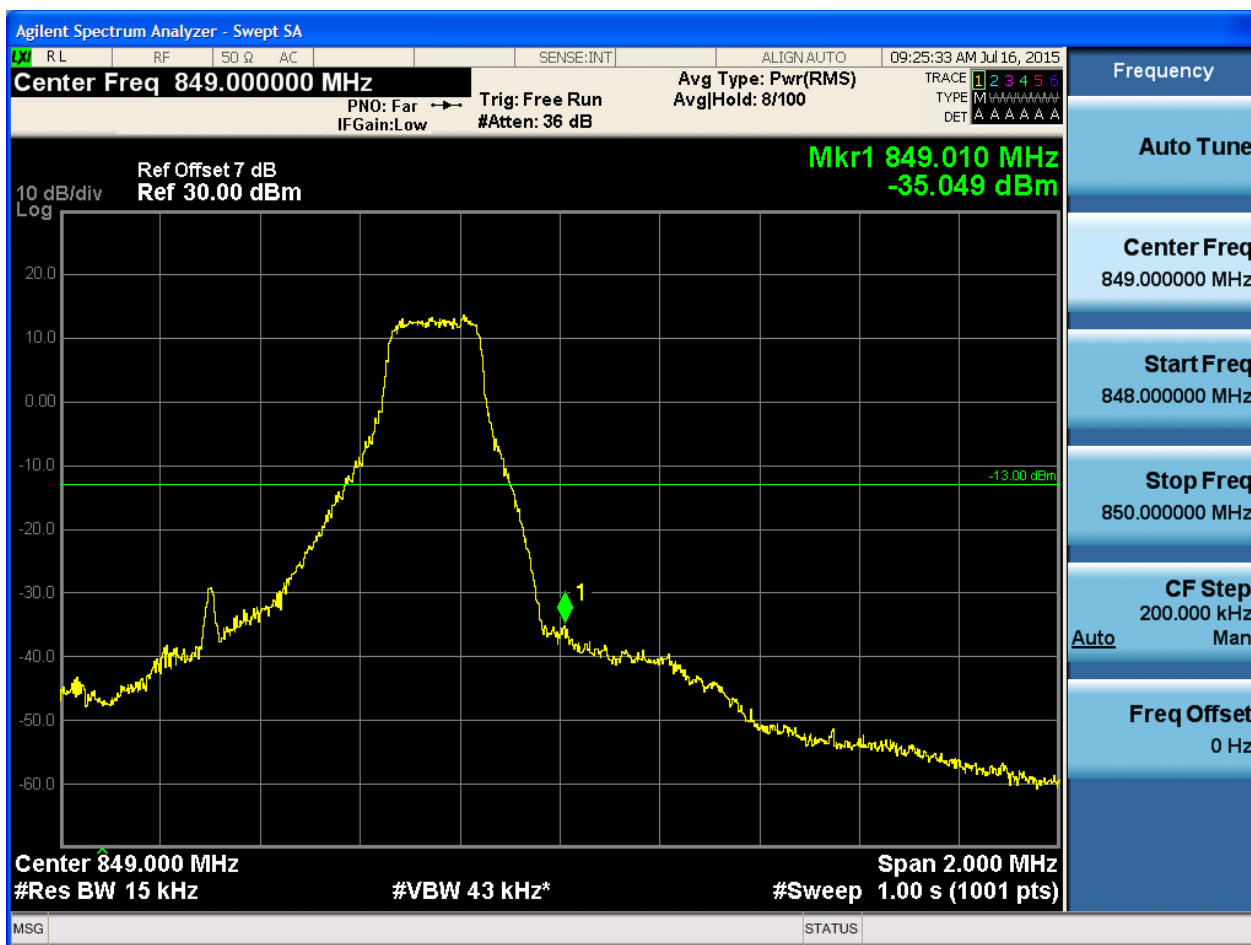




## 5.1.1.2.1.2.2 Test RB = RB1#5





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 849.010 MHz  
-41.843 dBm

Center 849.000 MHz  
#Res BW 15 kHz

Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq  
849.000000 MHz

Start Freq  
848.000000 MHz

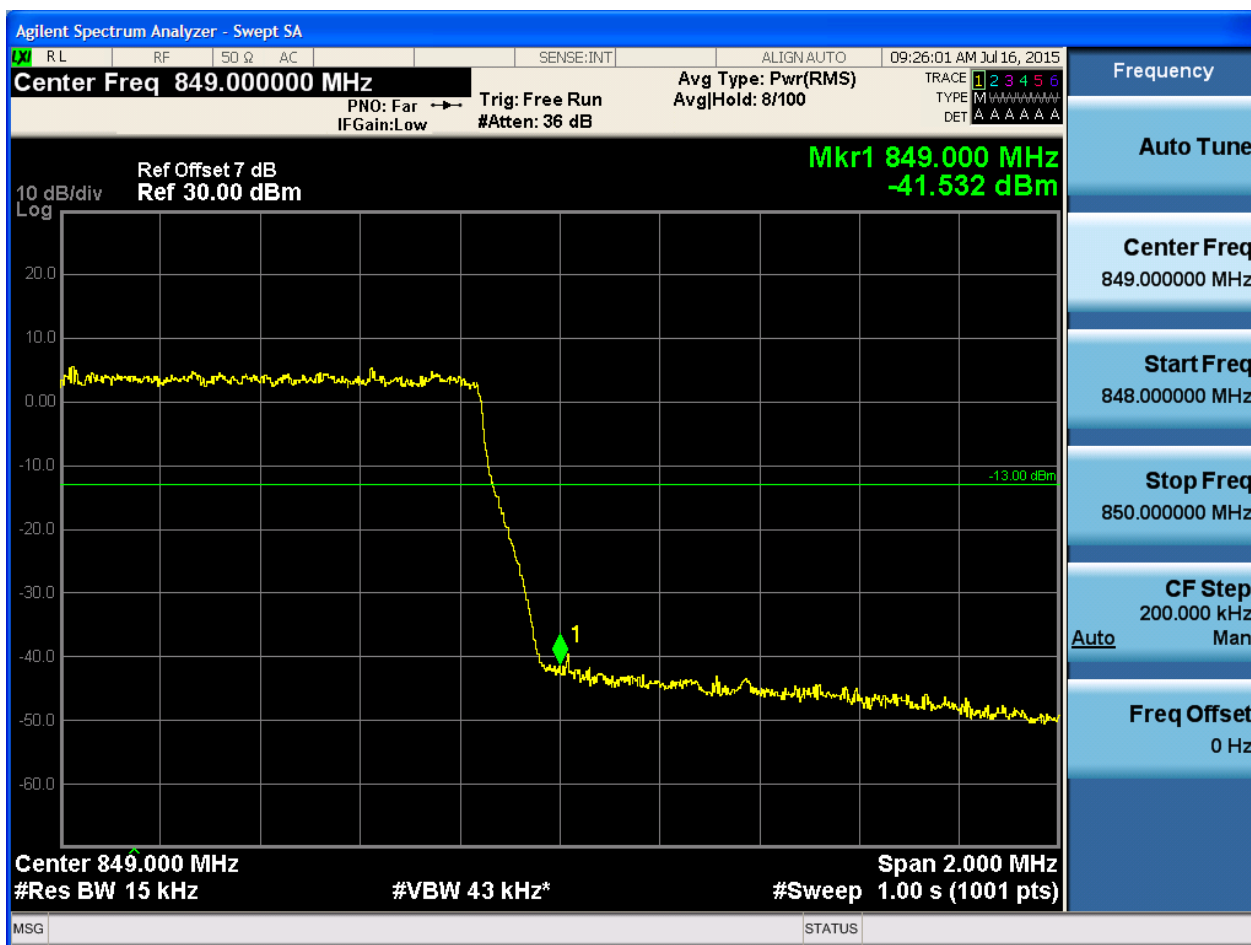
Stop Freq  
850.000000 MHz

CF Step  
200.000 kHz  
Man

Freq Offset  
0 Hz



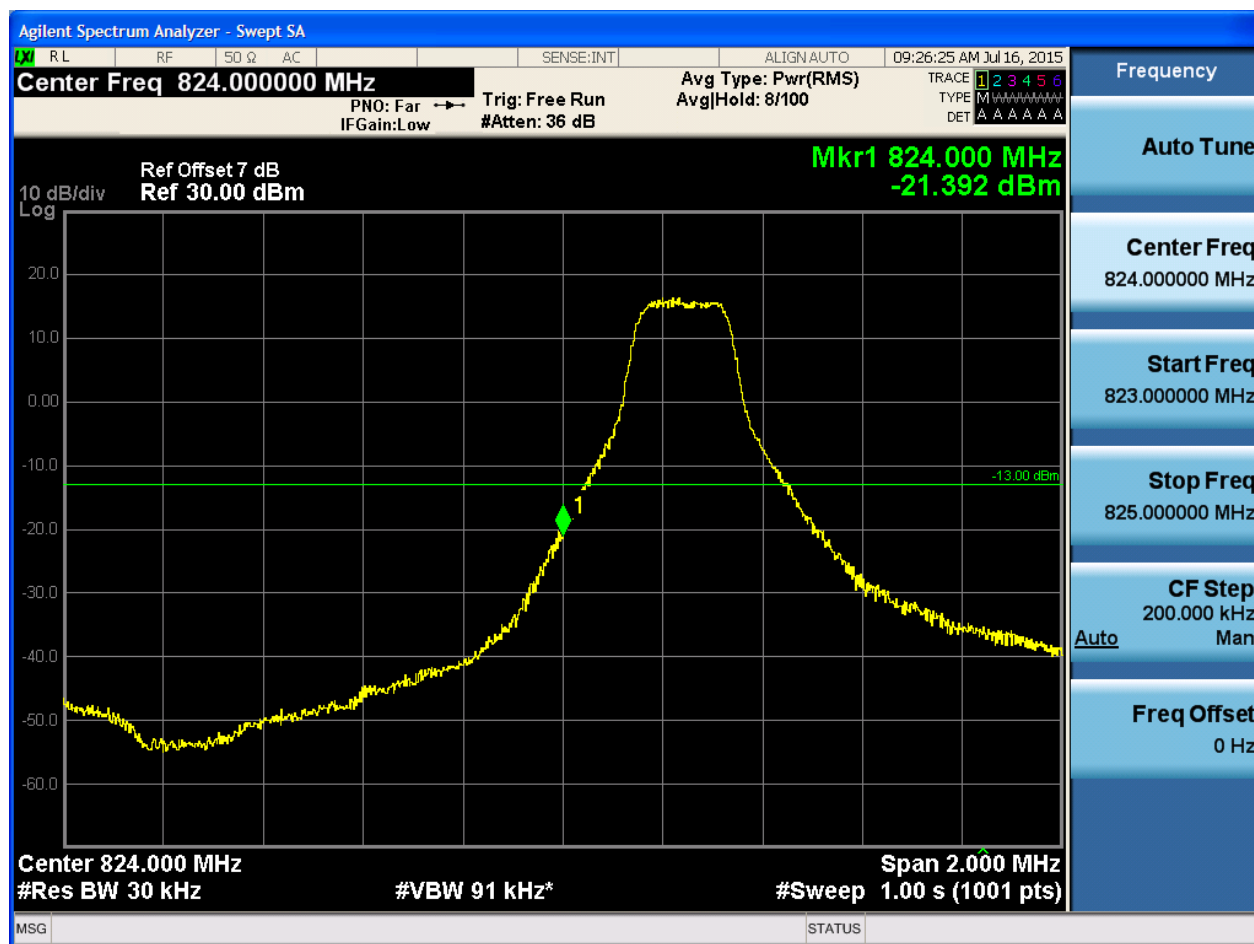
## 5.1.1.2.1.2.4 Test RB = RB6#0



### 5.1.1.2.2 Test Bandwidth = 3

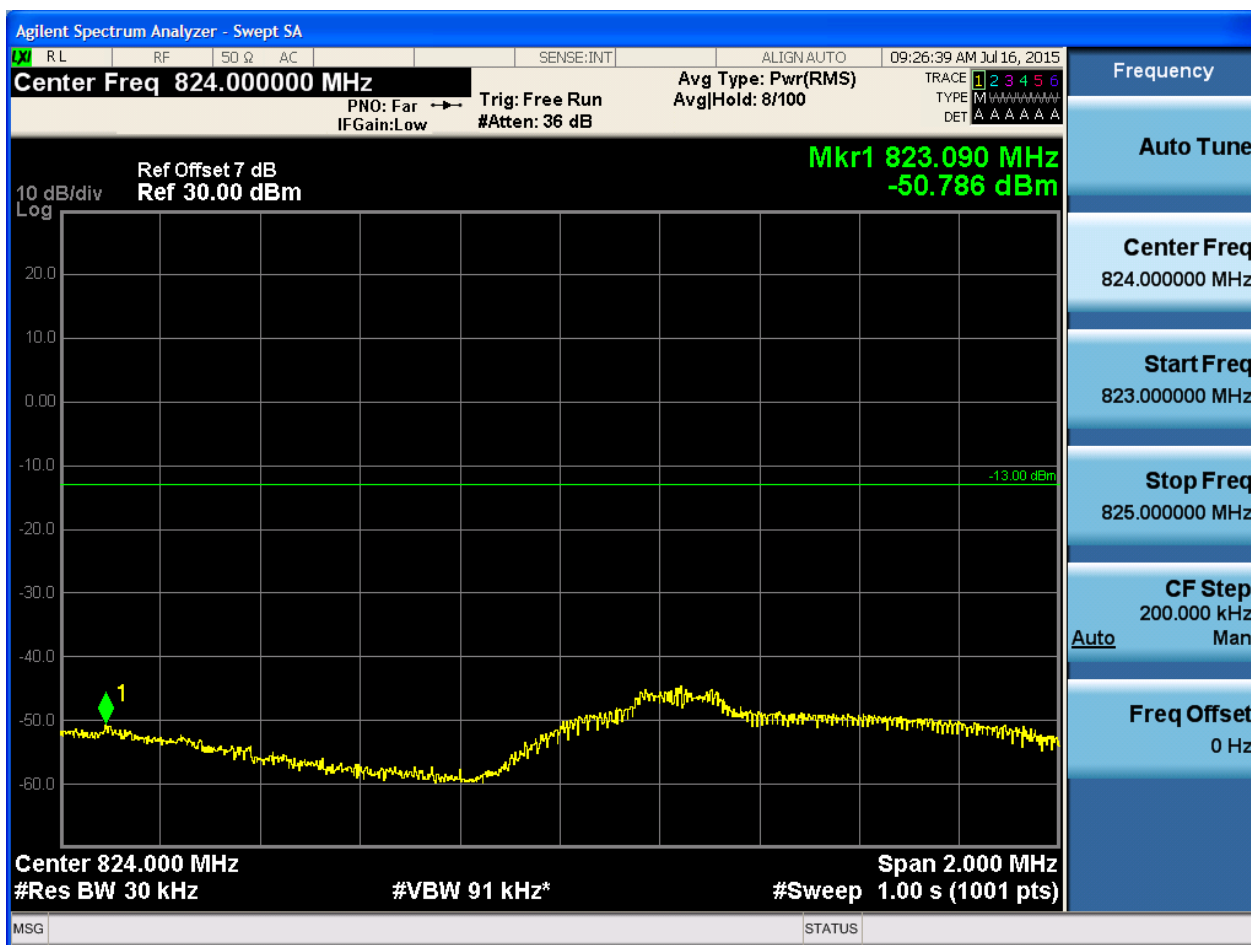
#### 5.1.1.2.2.1 Test Channel = LCH

##### 5.1.1.2.2.1.1 Test RB = RB1#0



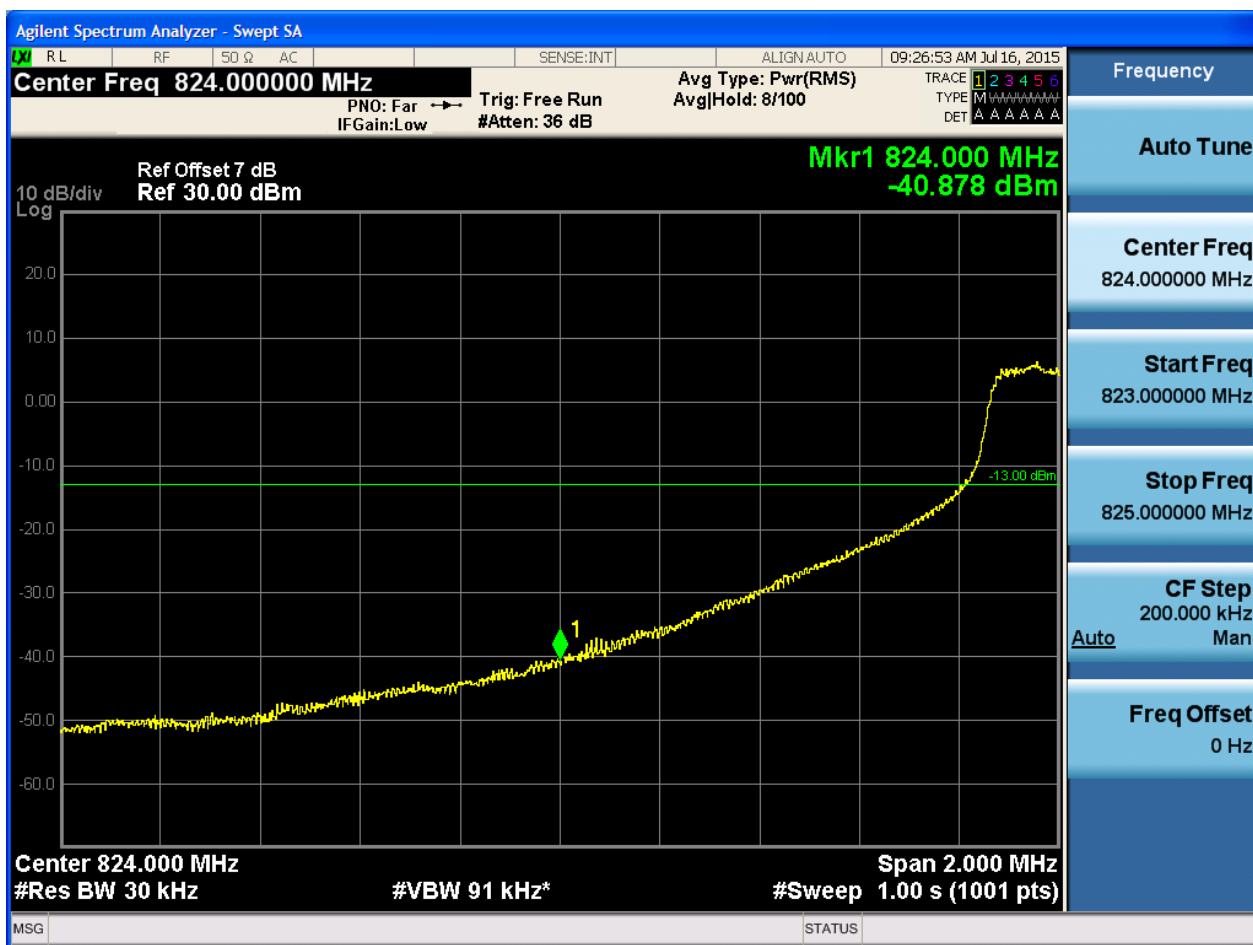


## 5.1.1.2.2.1.2 Test RB = RB1#14



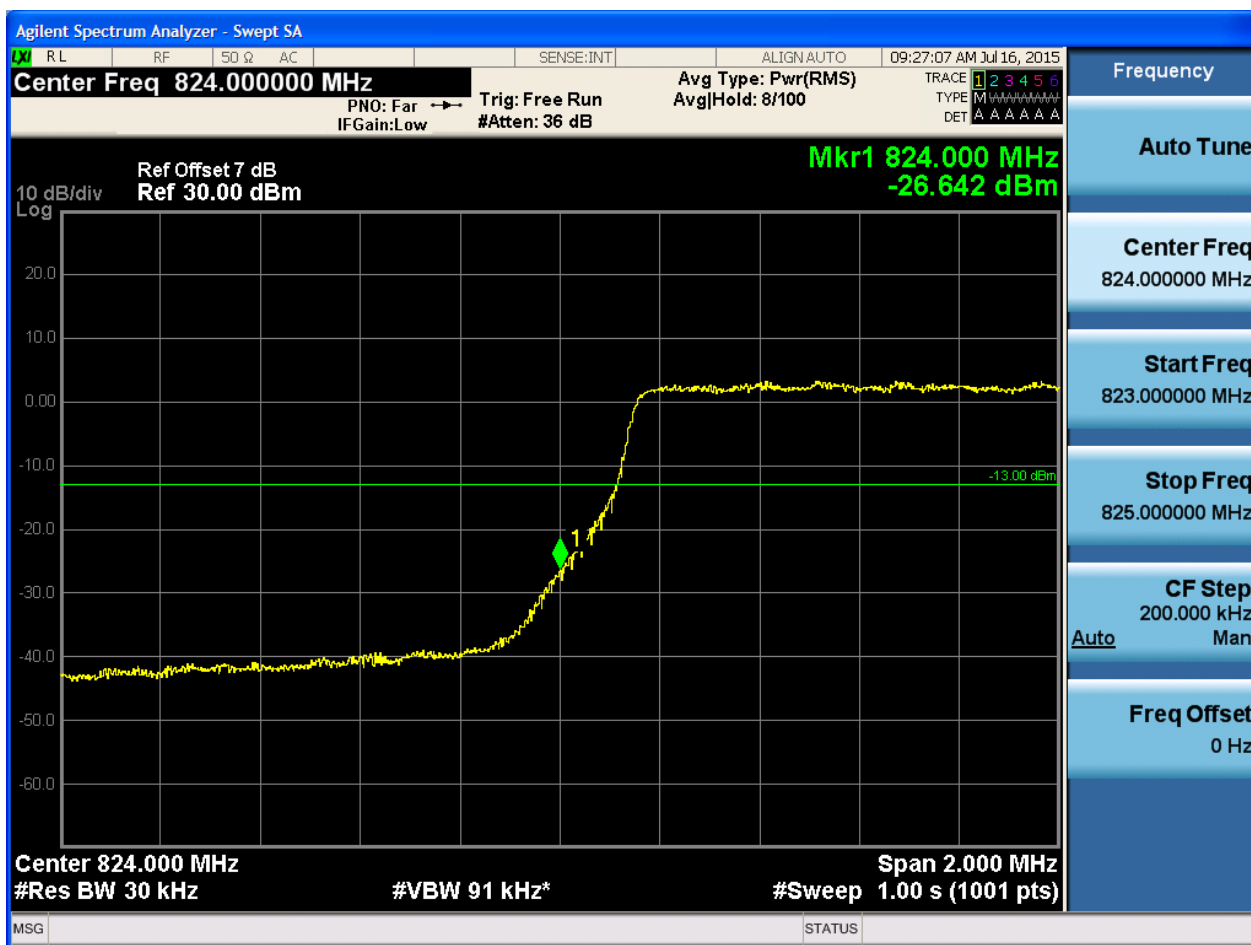


## 5.1.1.2.2.1.3 Test RB = RB8#4





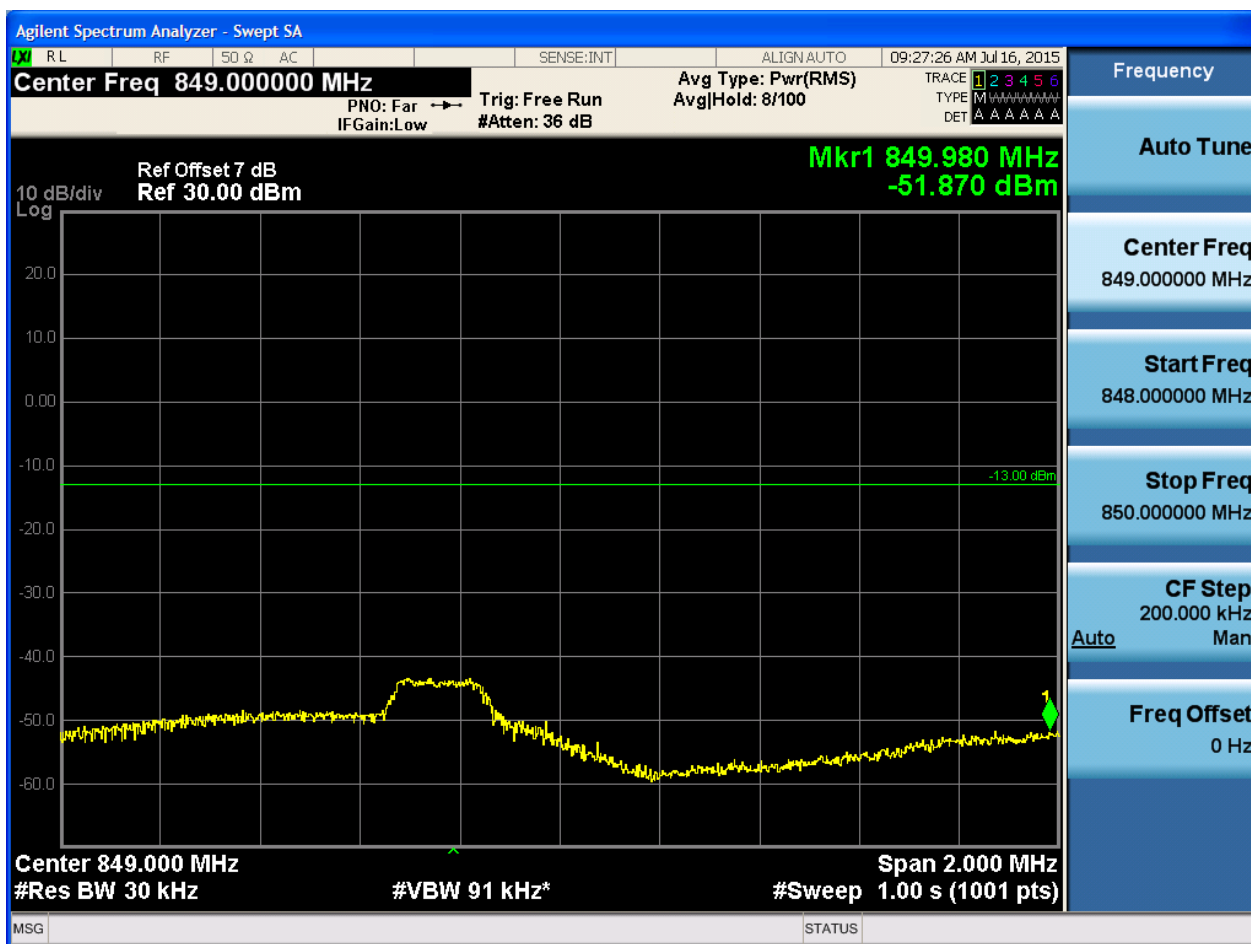
## 5.1.1.2.2.1.4 Test RB = RB15#0





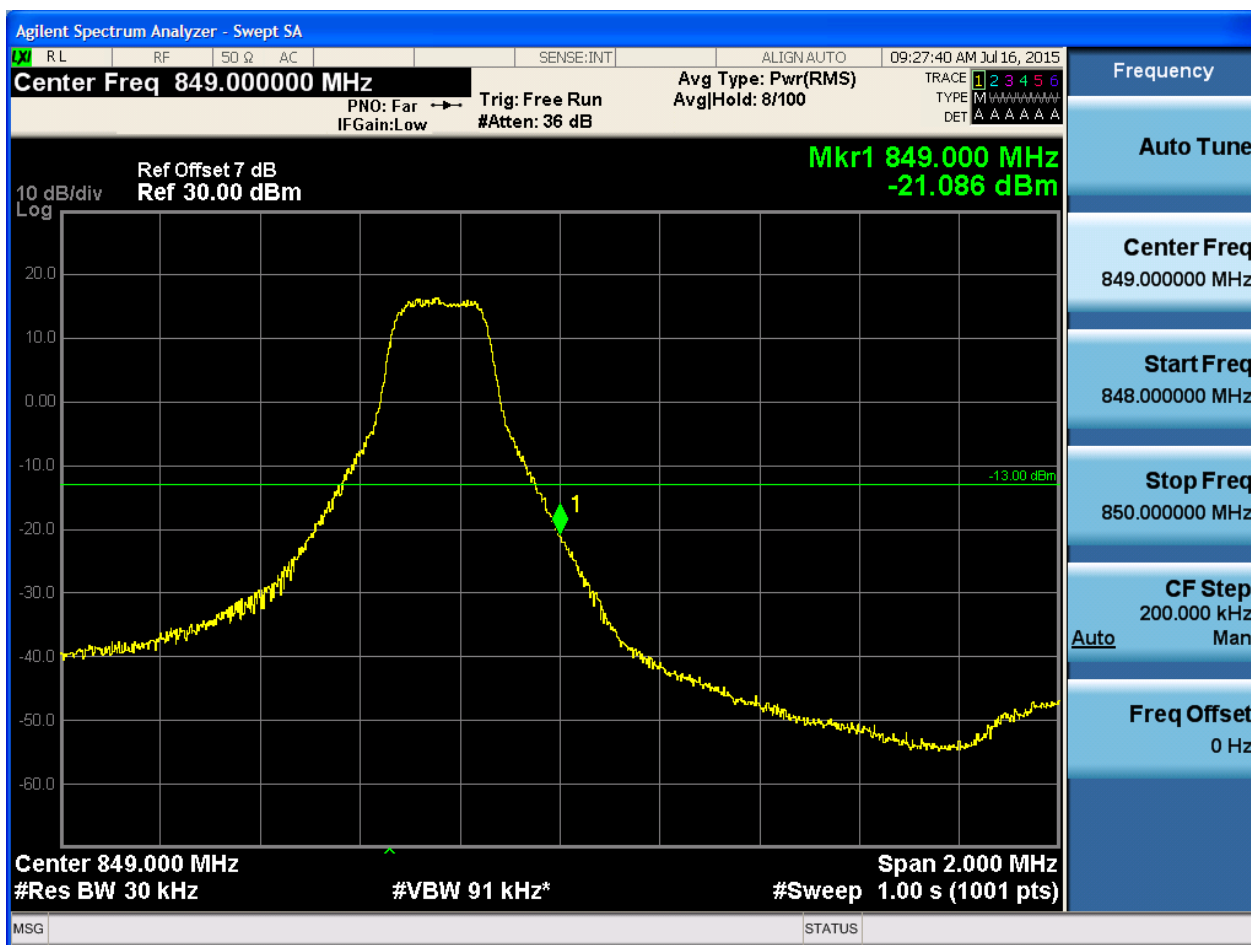
## 5.1.1.2.2.2 Test Channel = HCH

## 5.1.1.2.2.1 Test RB = RB1#0





## 5.1.1.2.2.2 Test RB = RB1#14





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 849.000 MHz  
-40.268 dBm

Center 849.000 MHz  
#Res BW 30 kHz

Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq  
849.000000 MHz

Start Freq  
848.000000 MHz

Stop Freq  
850.000000 MHz

CF Step  
200.000 kHz  
Man

Freq Offset  
0 Hz



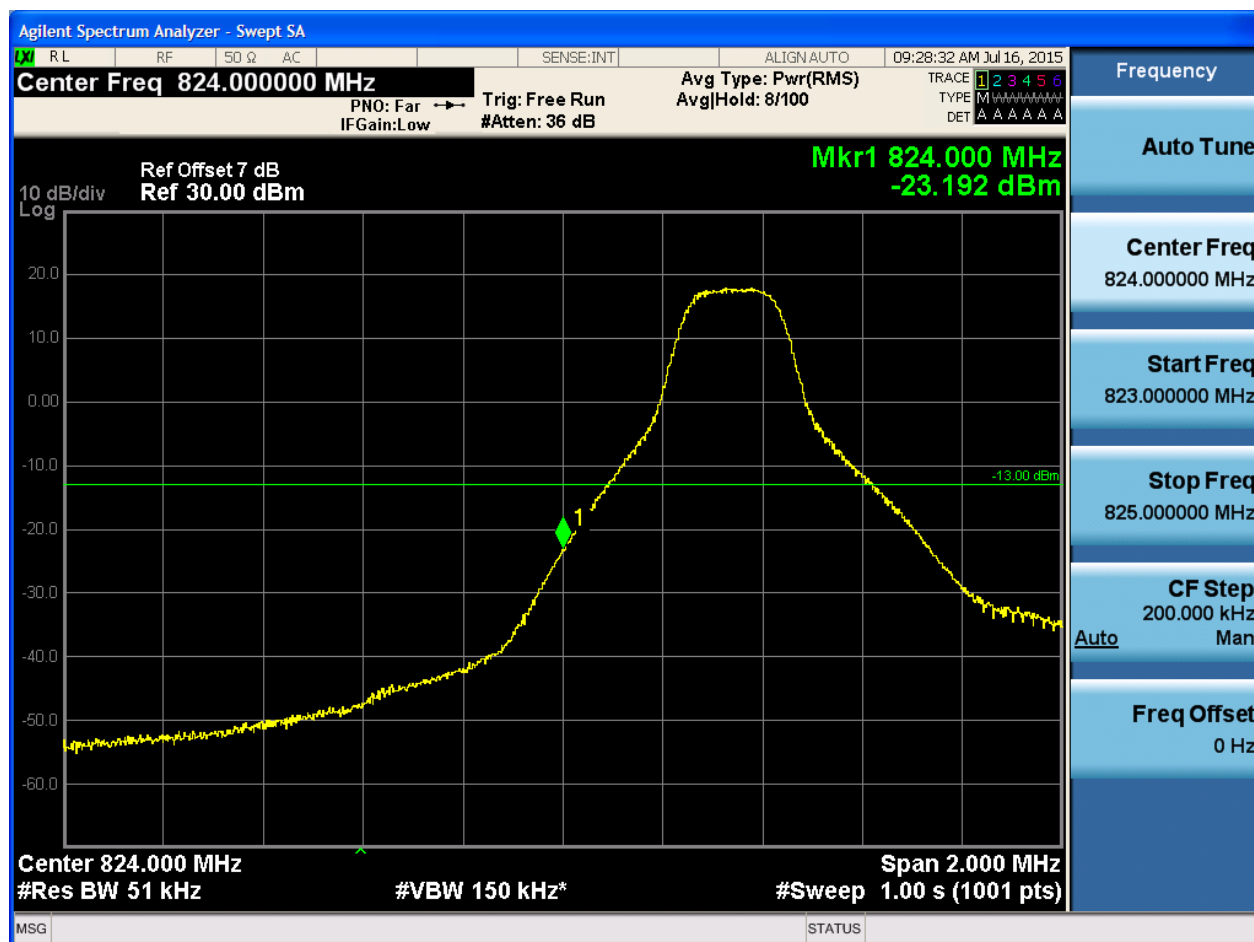
## 5.1.1.2.2.4 Test RB = RB15#0



#### 5.1.1.2.3 Test Bandwidth = 5

#### 5.1.1.2.3.1 Test Channel = LCH

#### 5.1.1.2.3.1.1 Test RB = RB1#0



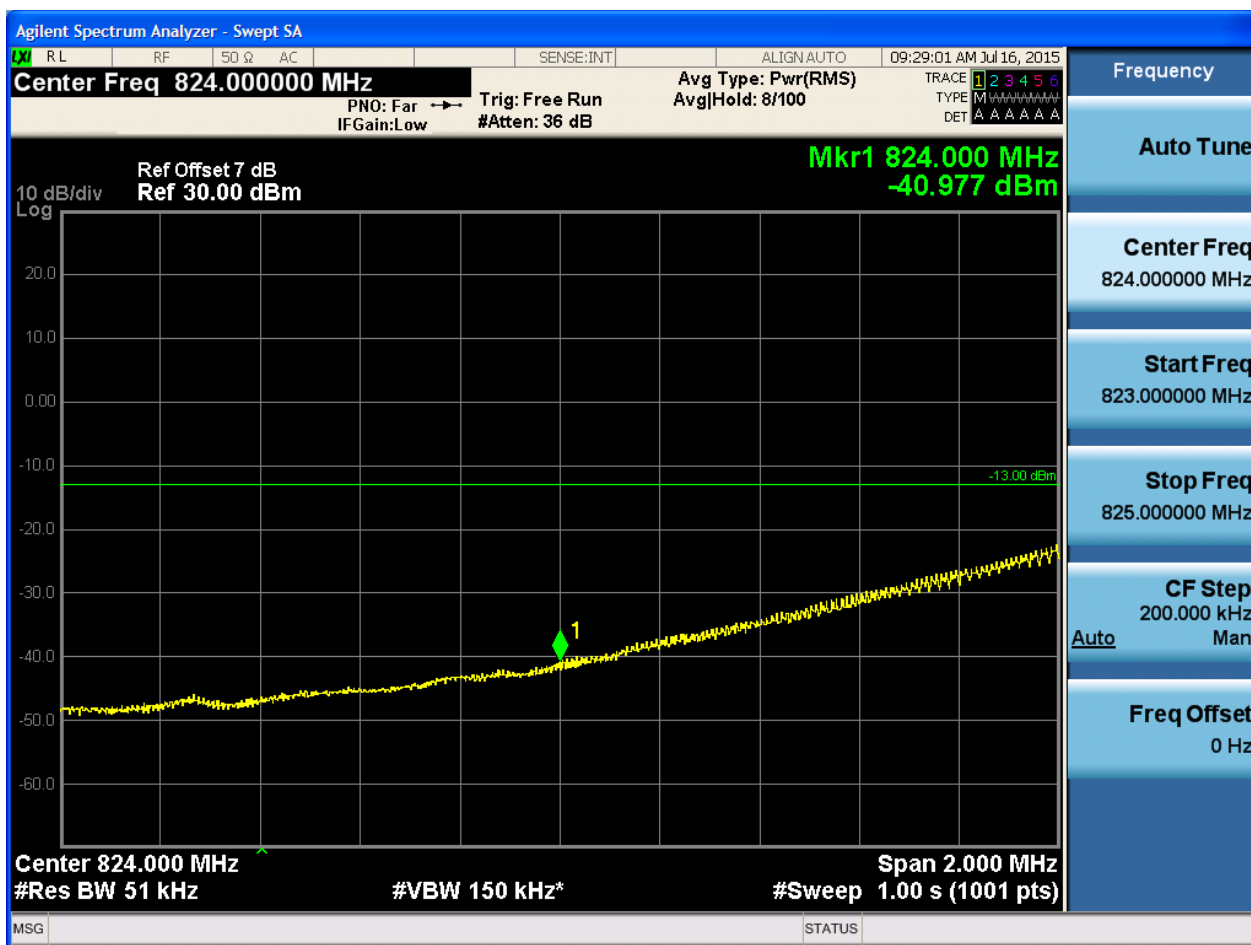


## 5.1.1.2.3.1.2 Test RB = RB1#24



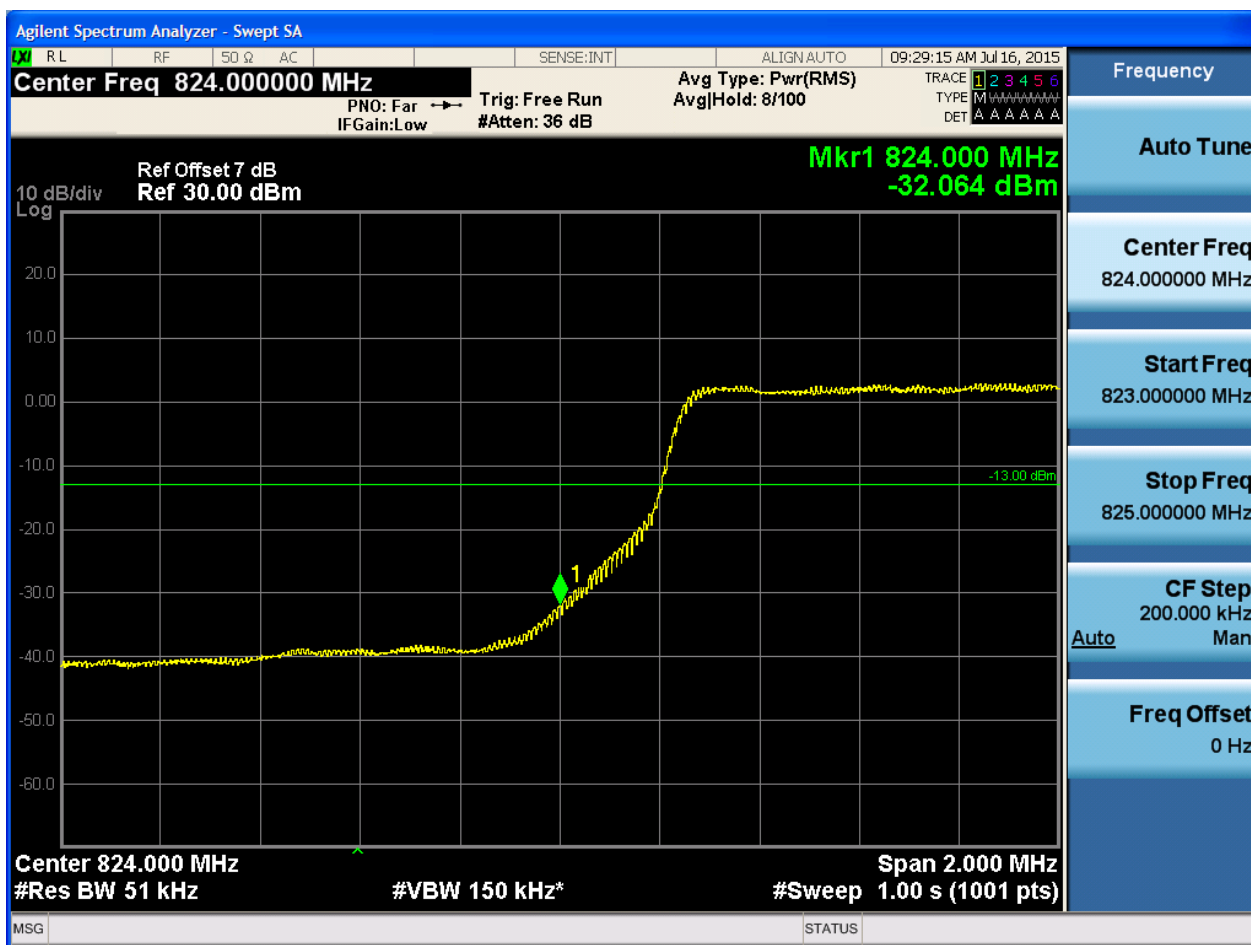


## 5.1.1.2.3.1.3 Test RB = RB12#6



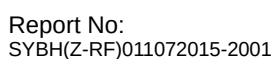


## 5.1.1.2.3.1.4 Test RB = RB25#0



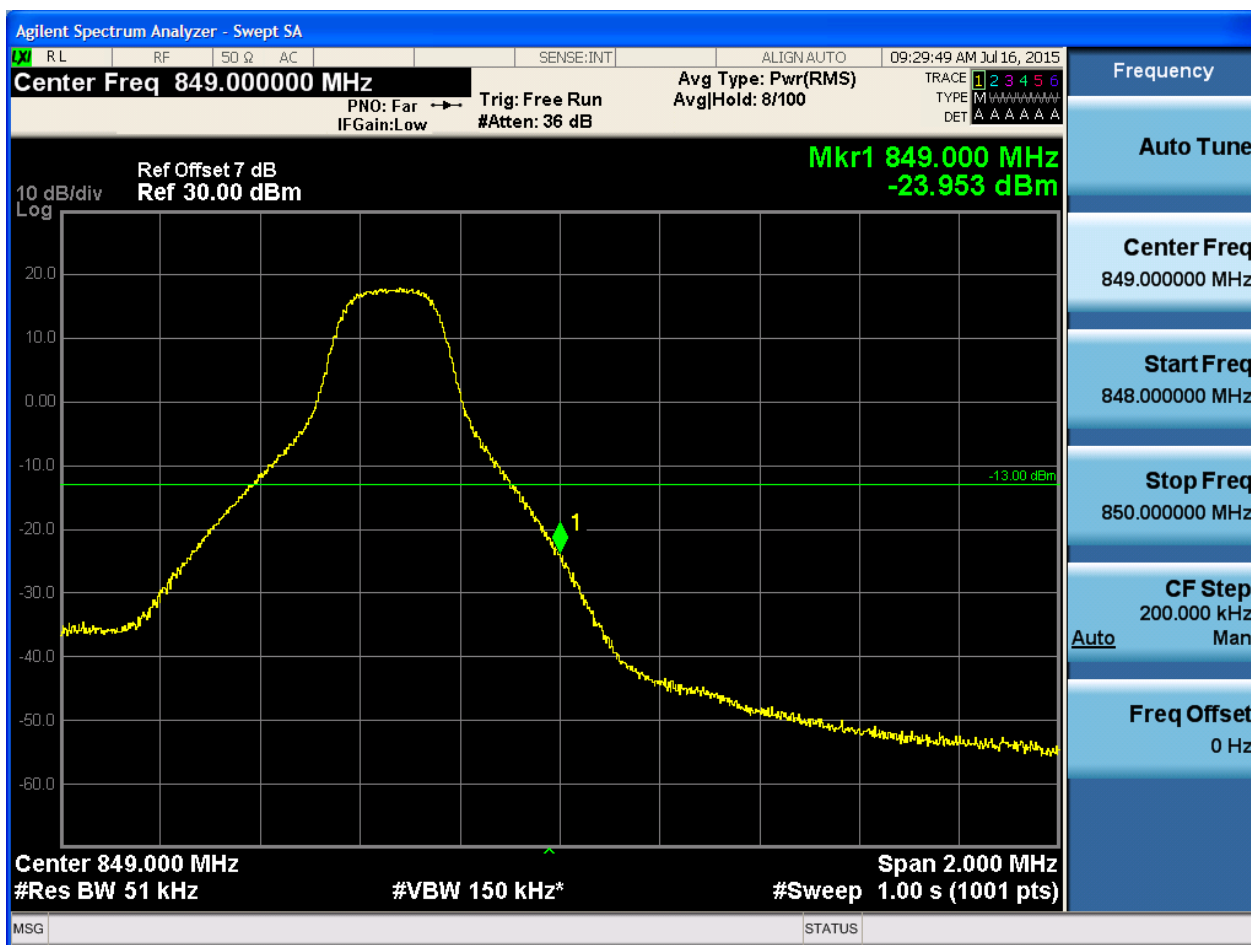


#### 5.1.1.2.3.2.1 Test RB = RB1#0





## 5.1.1.2.3.2.2 Test RB = RB1#24





## 5.1.1.2.3.2.3 Test RB = RB12#6





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 849.000 MHz  
-32.555 dBm

Center 849.000 MHz  
#Res BW 51 kHz  
#VBW 150 kHz\*

Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq 849.000000 MHz

Start Freq 848.000000 MHz

Stop Freq 850.000000 MHz

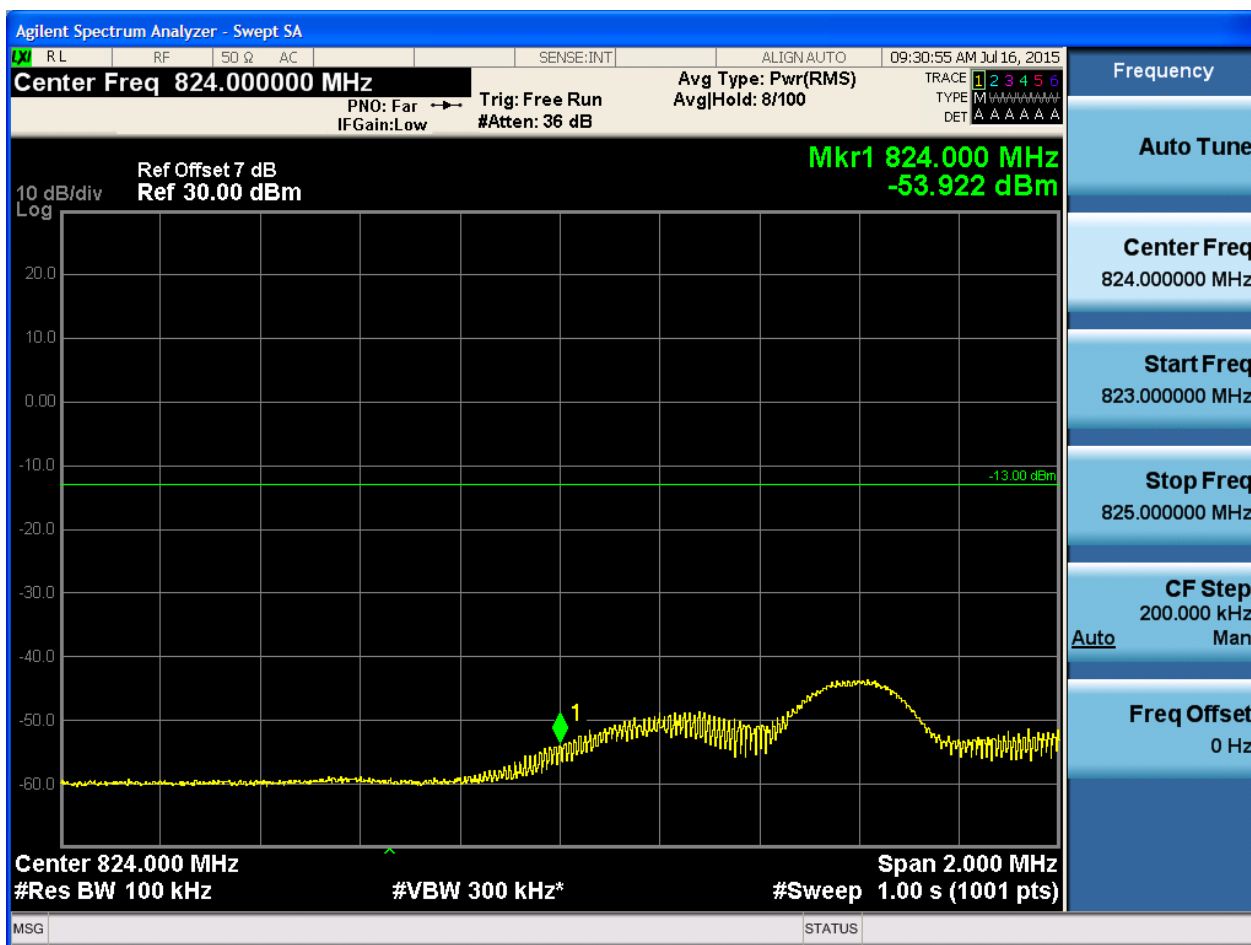
CF Step 200.000 kHz  
Man

Freq Offset 0 Hz





## 5.1.1.2.4.1.2 Test RB = RB1#49



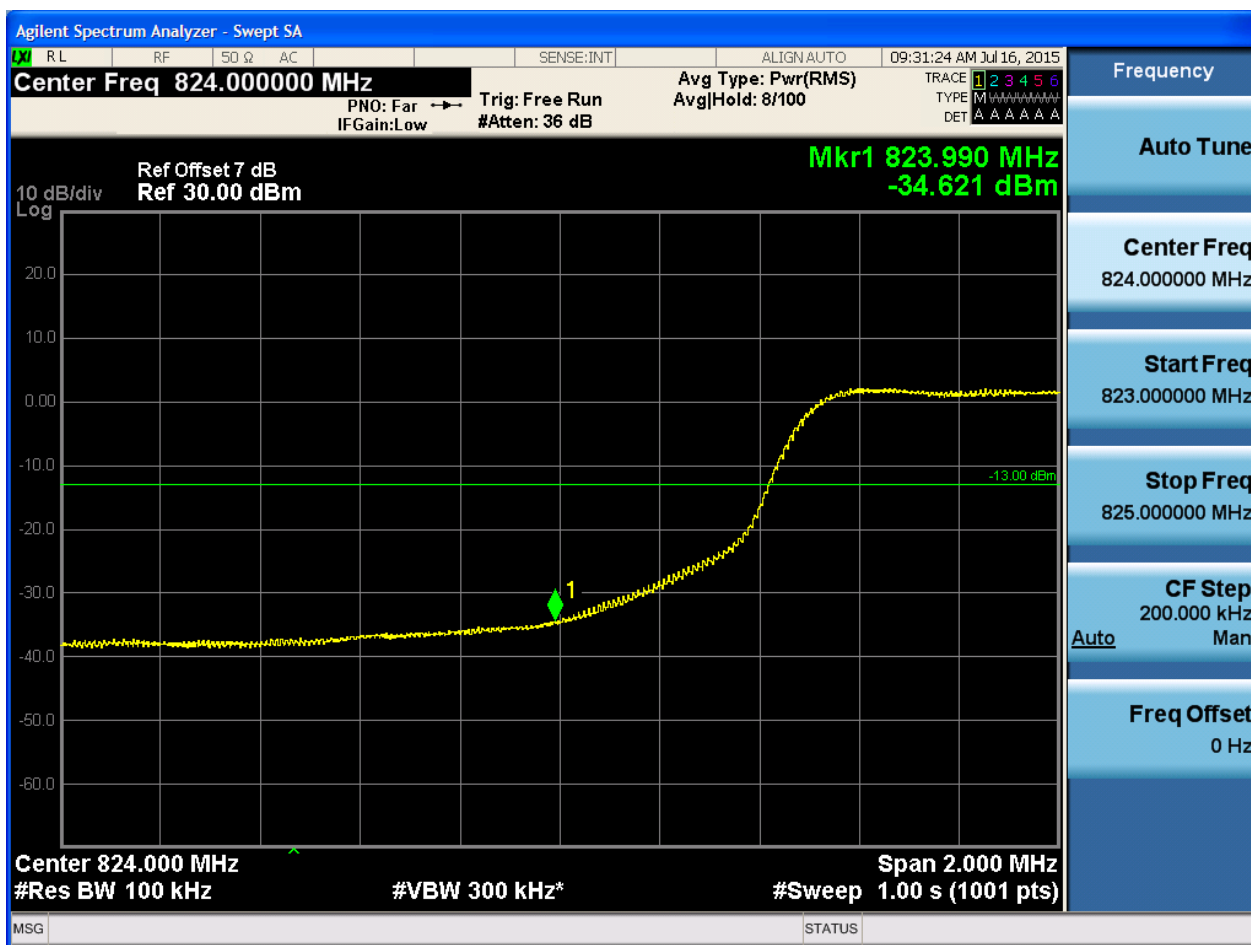


## 5.1.1.2.4.1.3 Test RB = RB25#13





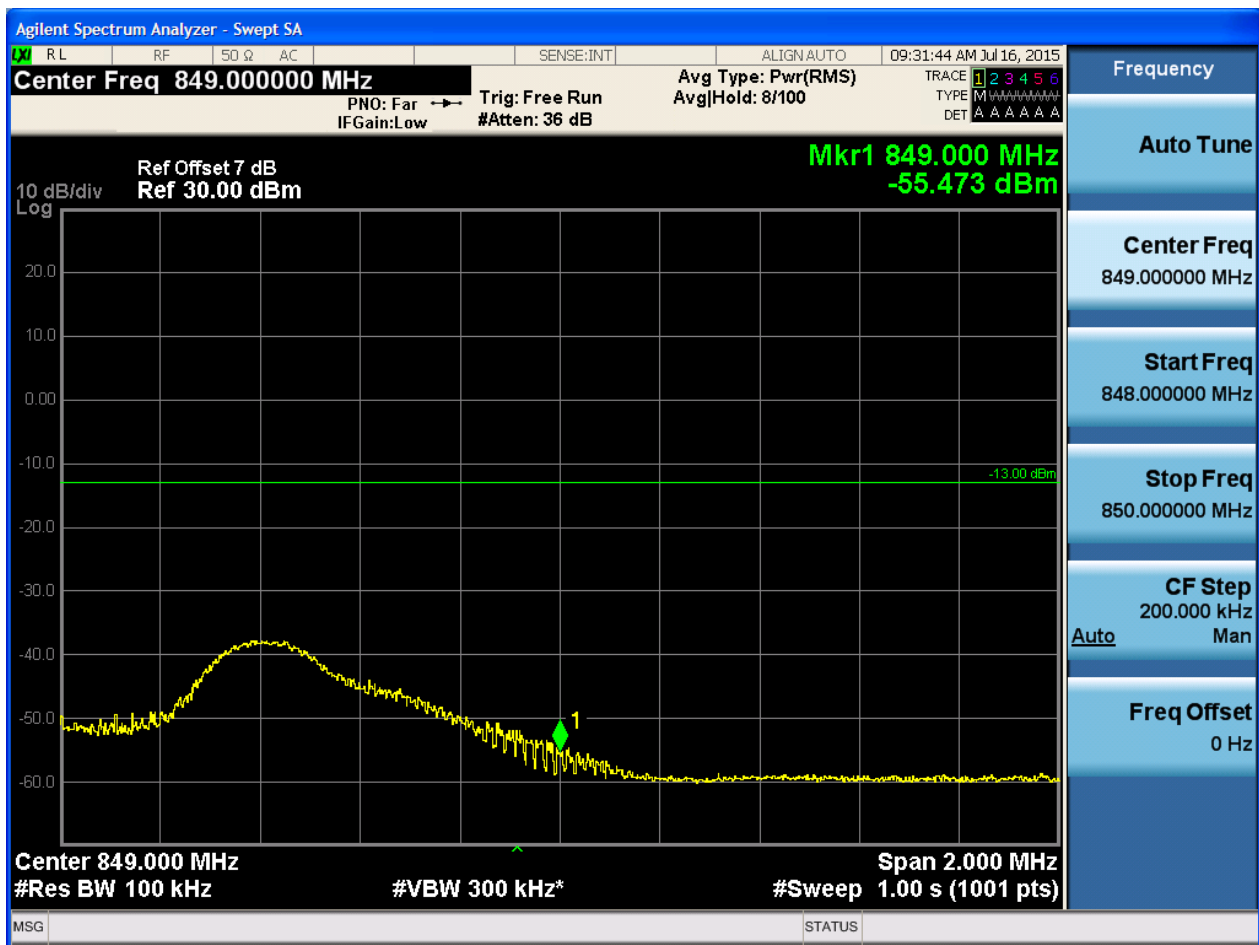
## 5.1.1.2.4.1.4 Test RB = RB50#0





## 5.1.1.2.4.2 Test Channel = HCH

## 5.1.1.2.4.2.1 Test RB = RB1#0





Agilent Spectrum Analyzer - Swept SA

Center Freq 849.000000 MHz

Ref Offset 7 dB  
Ref 30.00 dBm

10 dB/div  
Log

Mkr1 849.000 MHz  
-33.960 dBm

Center 849.000 MHz  
#Res BW 100 kHz  
#VBW 300 kHz\*

Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

Auto Tune

Center Freq  
849.000000 MHz

Start Freq  
848.000000 MHz

Stop Freq  
850.000000 MHz

CF Step  
200.000 kHz  
Auto

Freq Offset  
0 Hz

Frequency

Auto Tune

Center Freq  
849.000000 MHz

Start Freq  
848.000000 MHz

Stop Freq  
850.000000 MHz

CF Step  
200.000 kHz  
Auto

Freq Offset  
0 Hz



Agilent Spectrum Analyzer - Swept SA

RL RF 50  $\Omega$  AC SENSE:INT ALIGN: AUTO 09:32:12 AM Jul 16, 2015

Center Freq 849.000000 MHz Avg Type: Pwr(RMS) Trace 1 2 3 4 5 6  
PNO: Far Trig: Free Run TYPE M W W W W W W W W  
IFGain: Low #Atten: 36 dB DET A A A A A A

Ref Offset 7 dB  
Ref 30.00 dBm

Mkr1 849.000 MHz  
-37.034 dBm

10 dB/div  
Log

Center 849.000 MHz  
#Res BW 100 kHz  
#VBW 300 kHz\*  
Span 2.000 MHz  
#Sweep 1.00 s (1001 pts)

MSG STATUS

Frequency  
Auto Tune  
Center Freq  
849.000000 MHz  
Start Freq  
848.000000 MHz  
Stop Freq  
850.000000 MHz  
CF Step  
200.000 kHz  
Auto Man  
Freq Offset  
0 Hz



## 5.1.1.2.4.2.4 Test RB = RB50#0





## 5.2 For LTE

### 5.2.1 Test Band = BAND7

#### 5.2.1.1 Test Mode = LTE/TM1

##### 5.2.1.1.1 Test Bandwidth = 5

##### 5.2.1.1.1.1 Test Channel = LCH

##### 5.2.1.1.1.1.1 Test RB = RB1#0



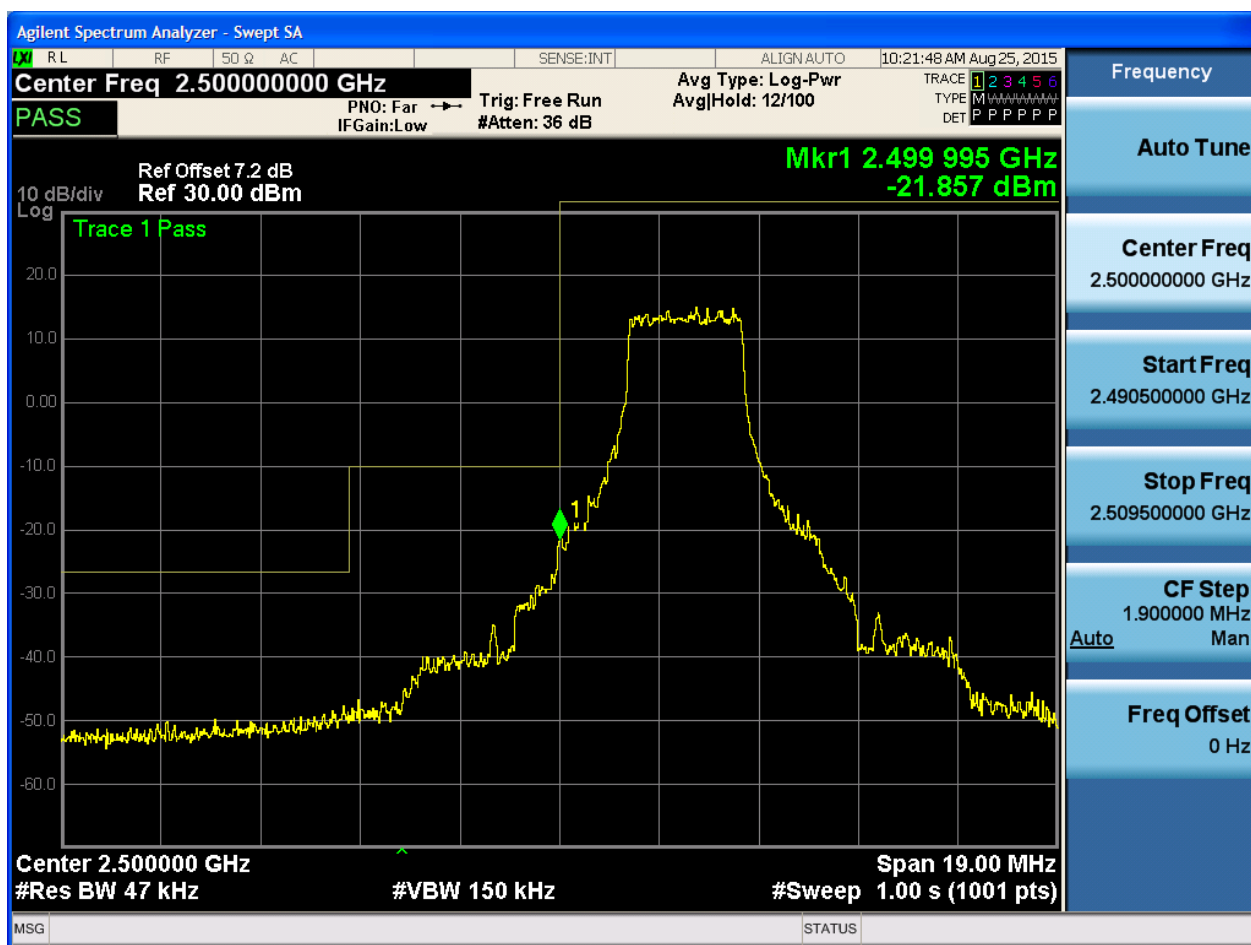


## 5.2.1.1.1.2 Test RB = RB1#24





## 5.2.1.1.1.3 Test RB = RB12#6





## 5.2.1.1.1.4 Test RB = RB25#0





## 5.2.1.1.1.2 Test Channel = HCH

## 5.2.1.1.1.2.1 Test RB = RB1#0





## 5.2.1.1.1.2.2 Test RB = RB1#24





## 5.2.1.1.1.2.3 Test RB = RB12#6





## 5.2.1.1.1.2.4 Test RB = RB25#0

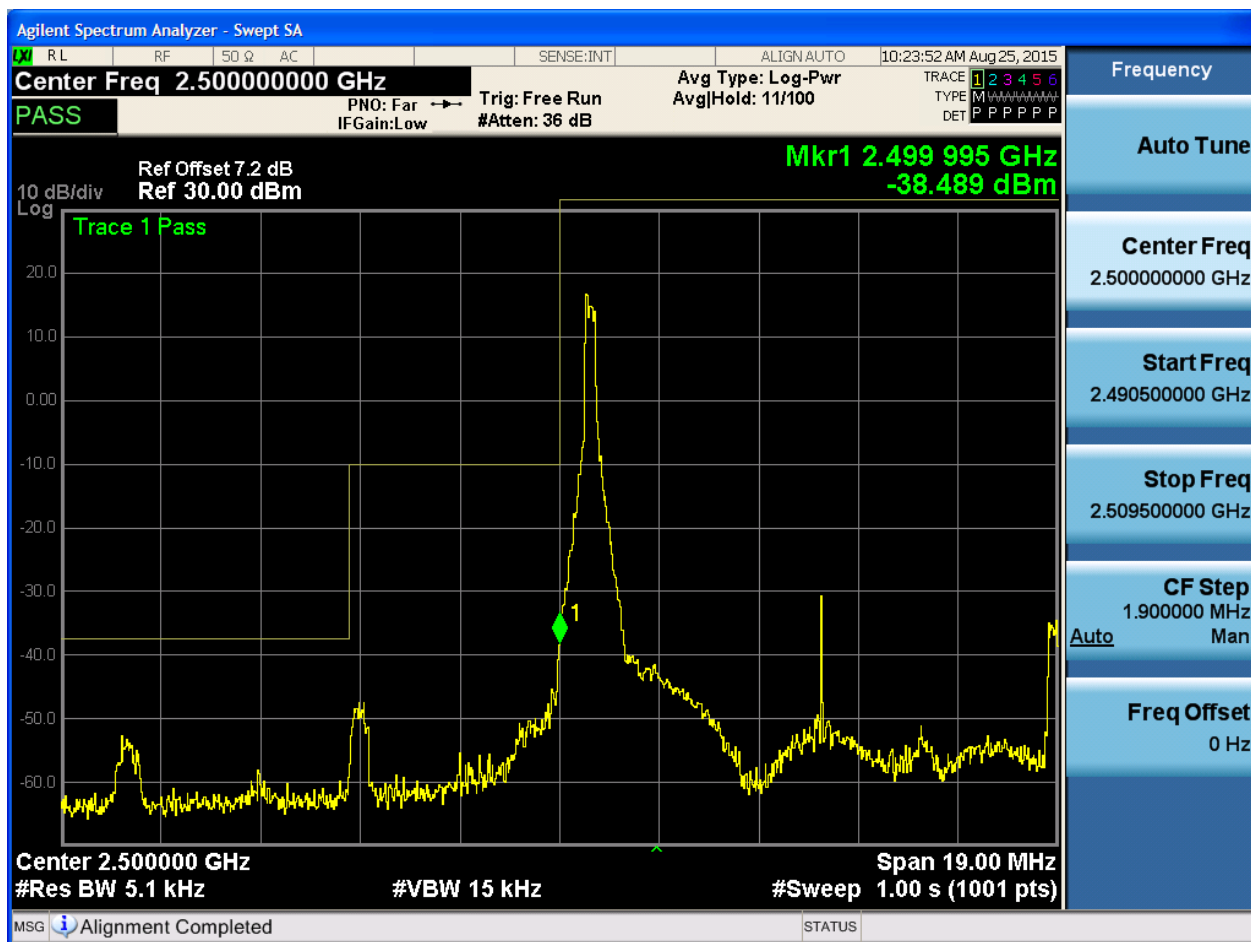




## 5.2.1.1.2 Test Bandwidth = 10

## 5.2.1.1.2.1 Test Channel = LCH

## 5.2.1.1.2.1.1 Test RB = RB1#0





## 5.2.1.1.2.1.2 Test RB = RB1#49



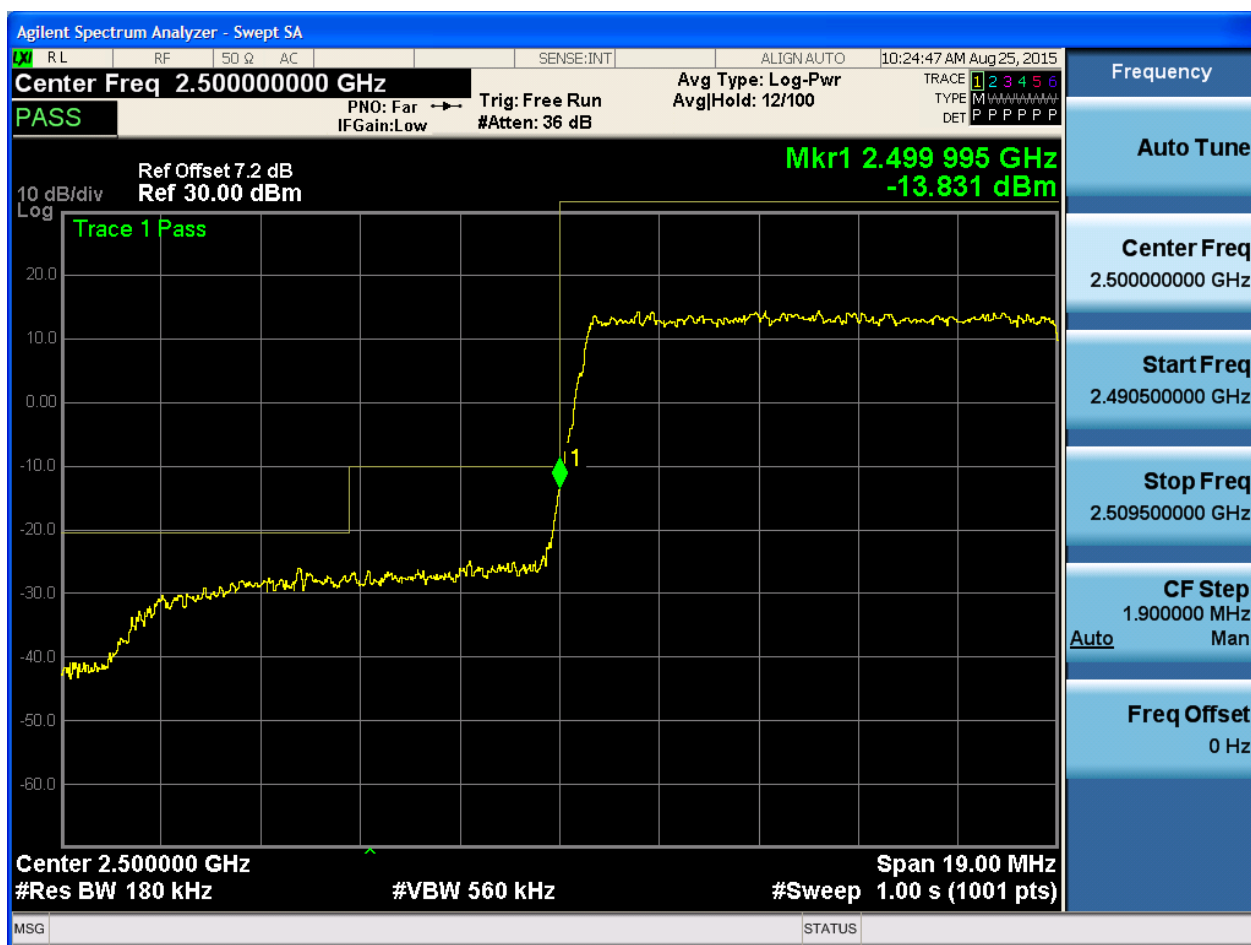


## 5.2.1.1.2.1.3 Test RB = RB25#13





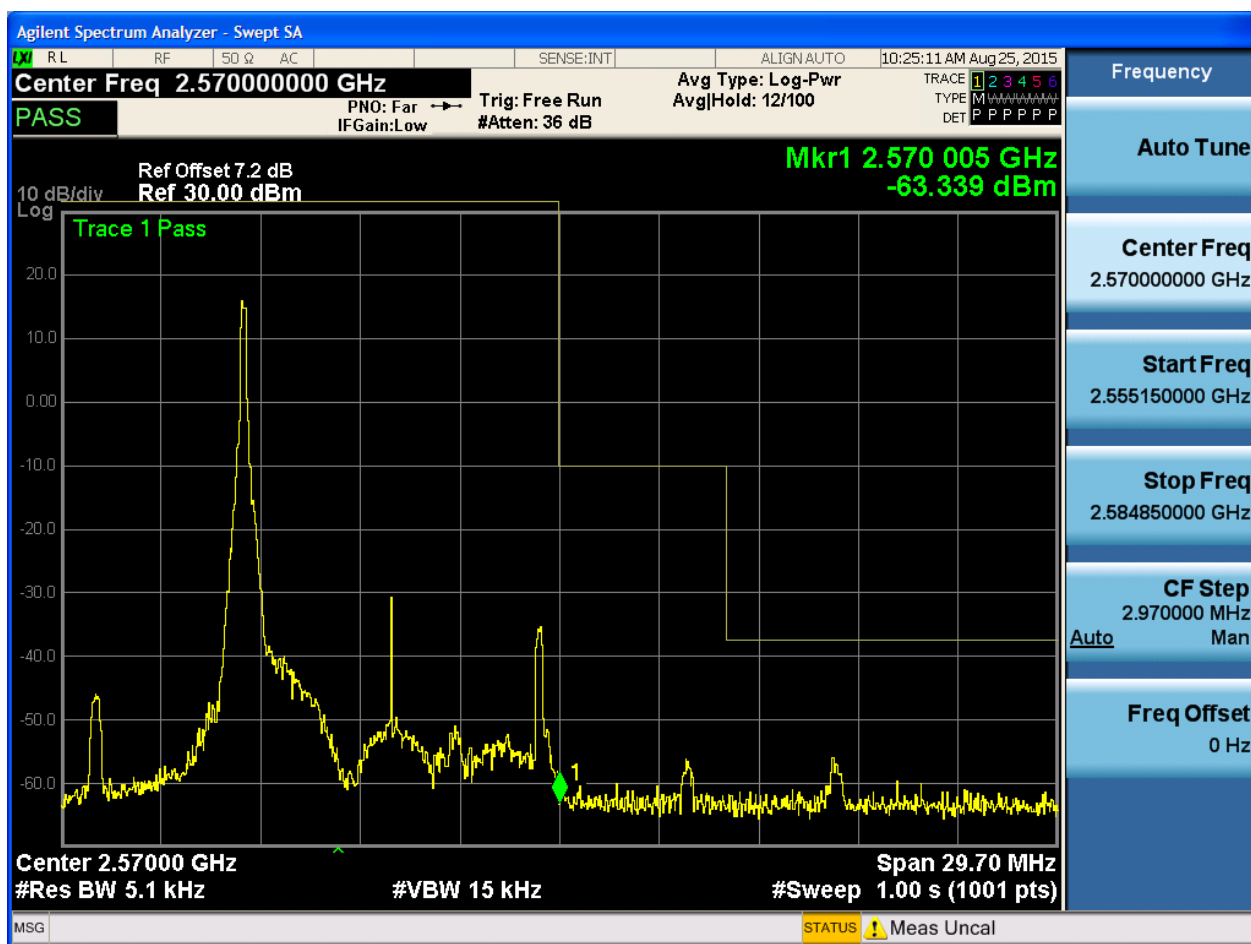
## 5.2.1.1.2.1.4 Test RB = RB50#0





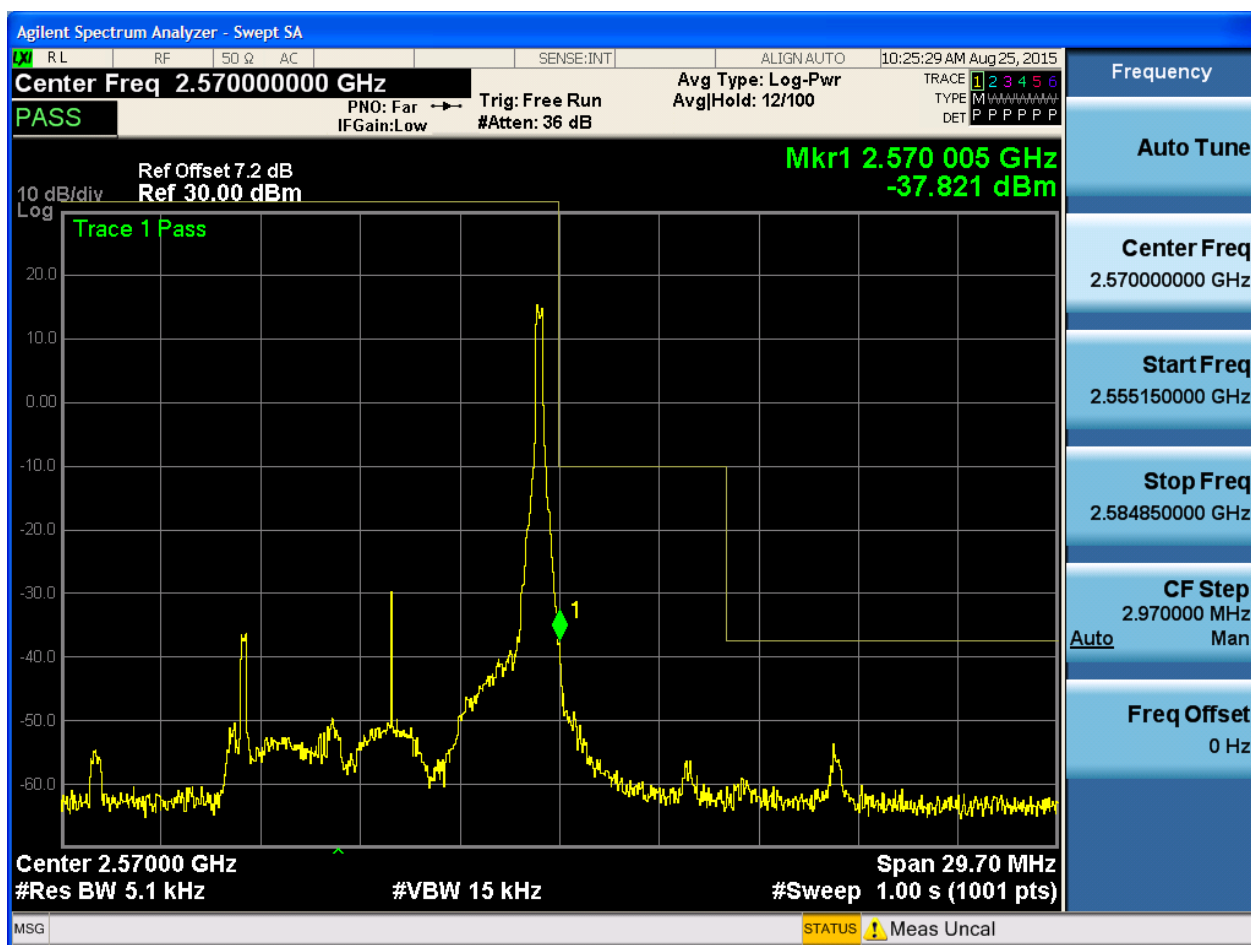
## 5.2.1.1.2.2 Test Channel = HCH

## 5.2.1.1.2.2.1 Test RB = RB1#0





## 5.2.1.1.2.2.2 Test RB = RB1#49



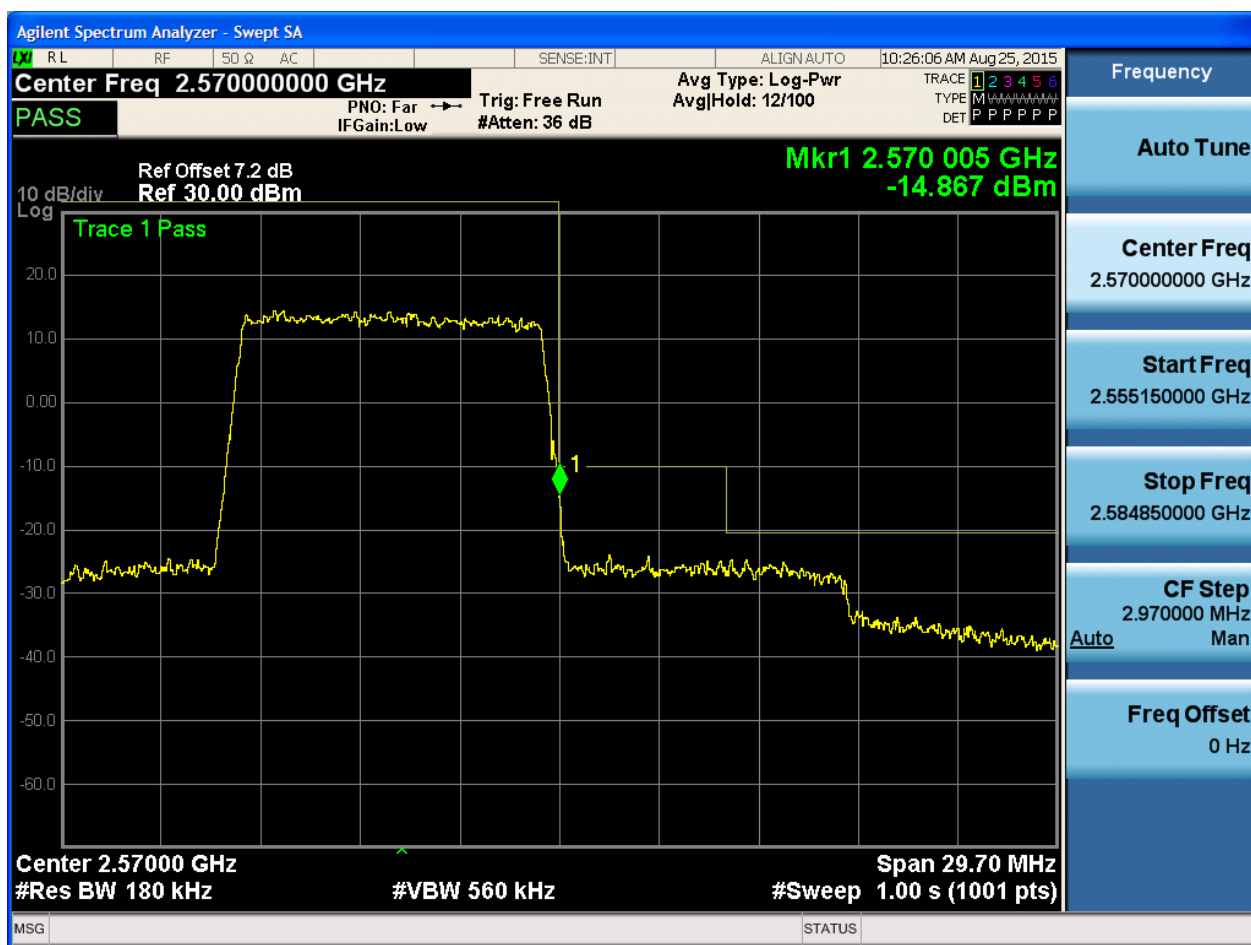


## 5.2.1.1.2.2.3 Test RB = RB25#13





## 5.2.1.1.2.2.4 Test RB = RB50#0

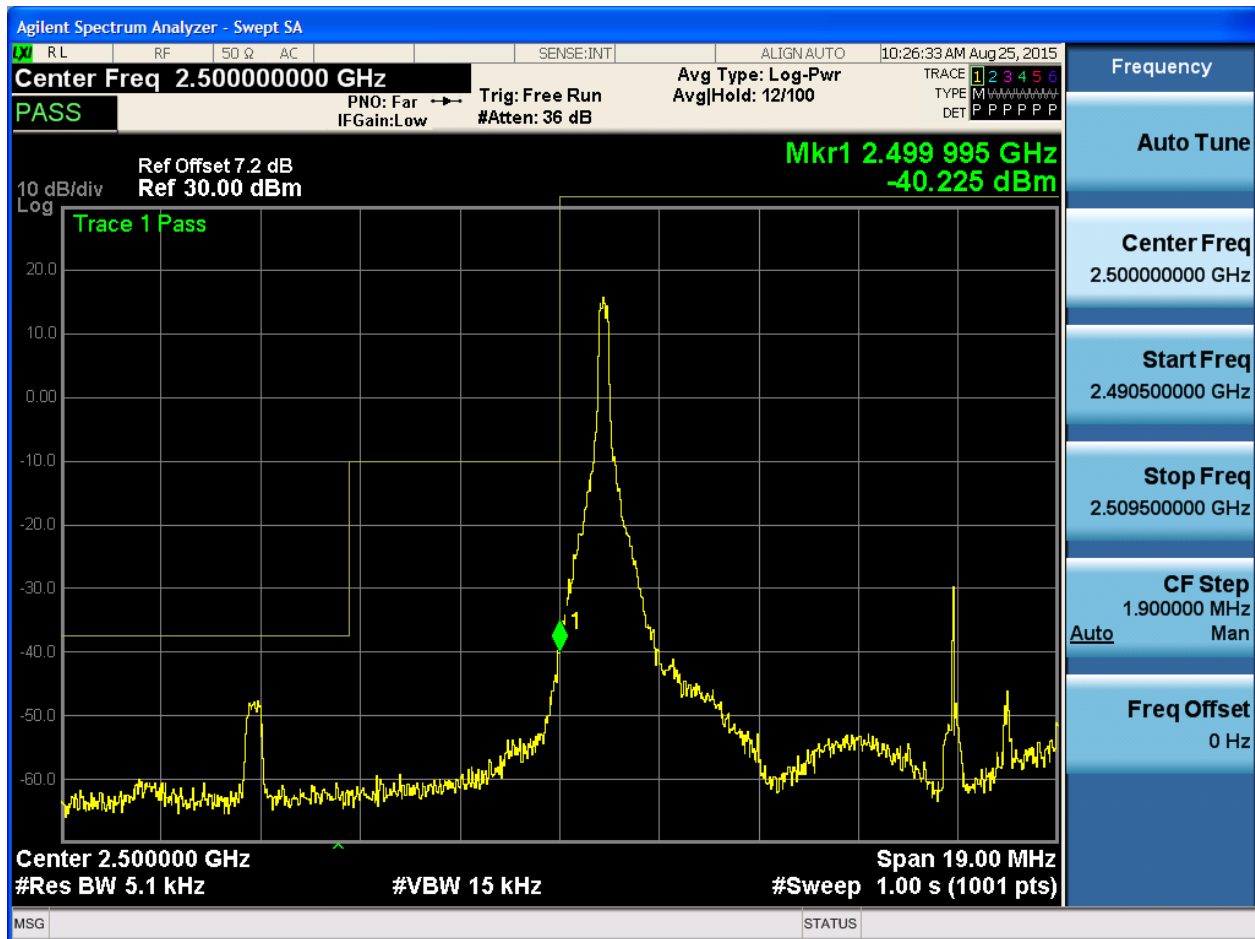




## 5.2.1.1.3 Test Bandwidth = 15

## 5.2.1.1.3.1 Test Channel = LCH

## 5.2.1.1.3.1.1 Test RB = RB1#0





## 5.2.1.1.3.1.2 Test RB = RB1#74



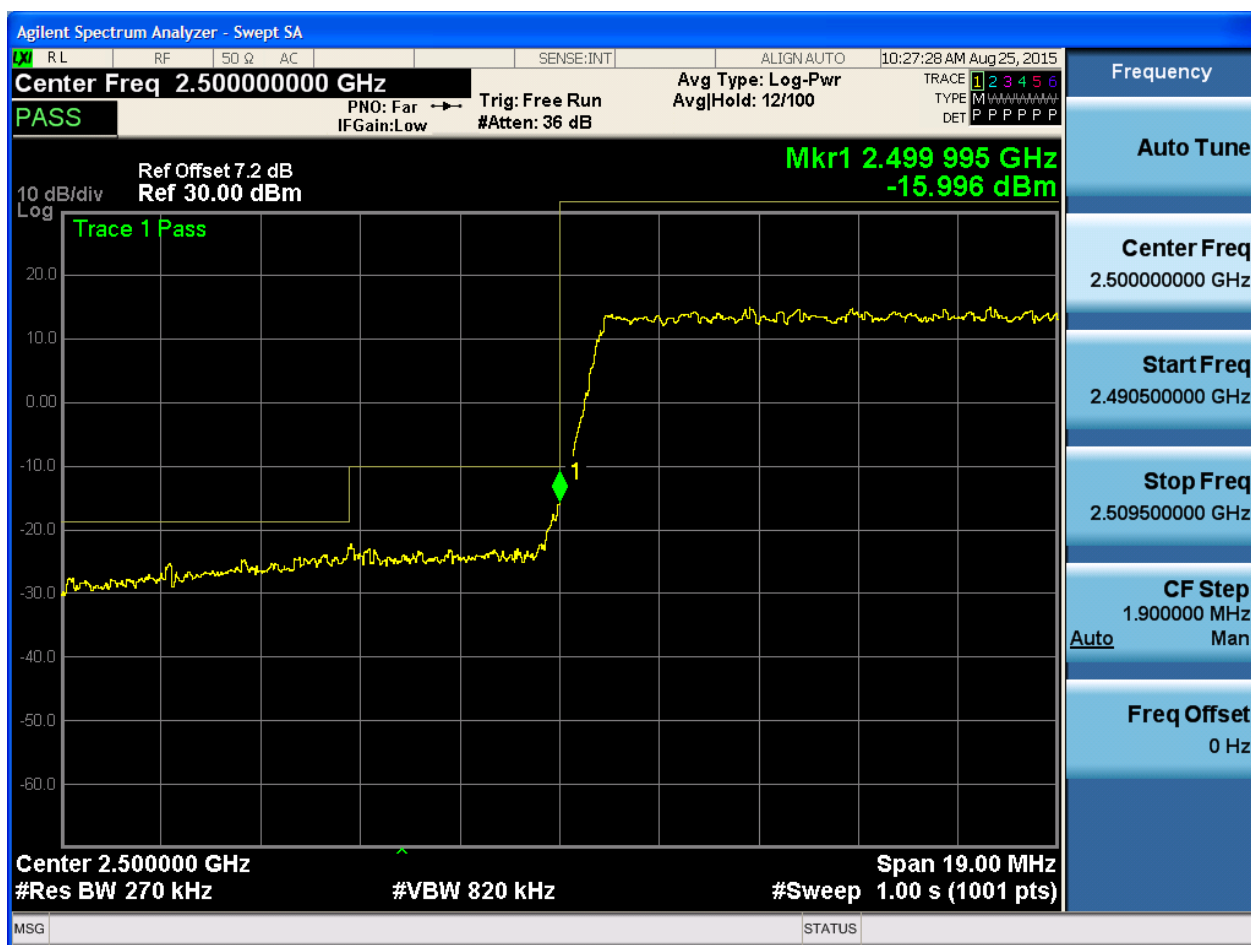


## 5.2.1.1.3.1.3 Test RB = RB36#18





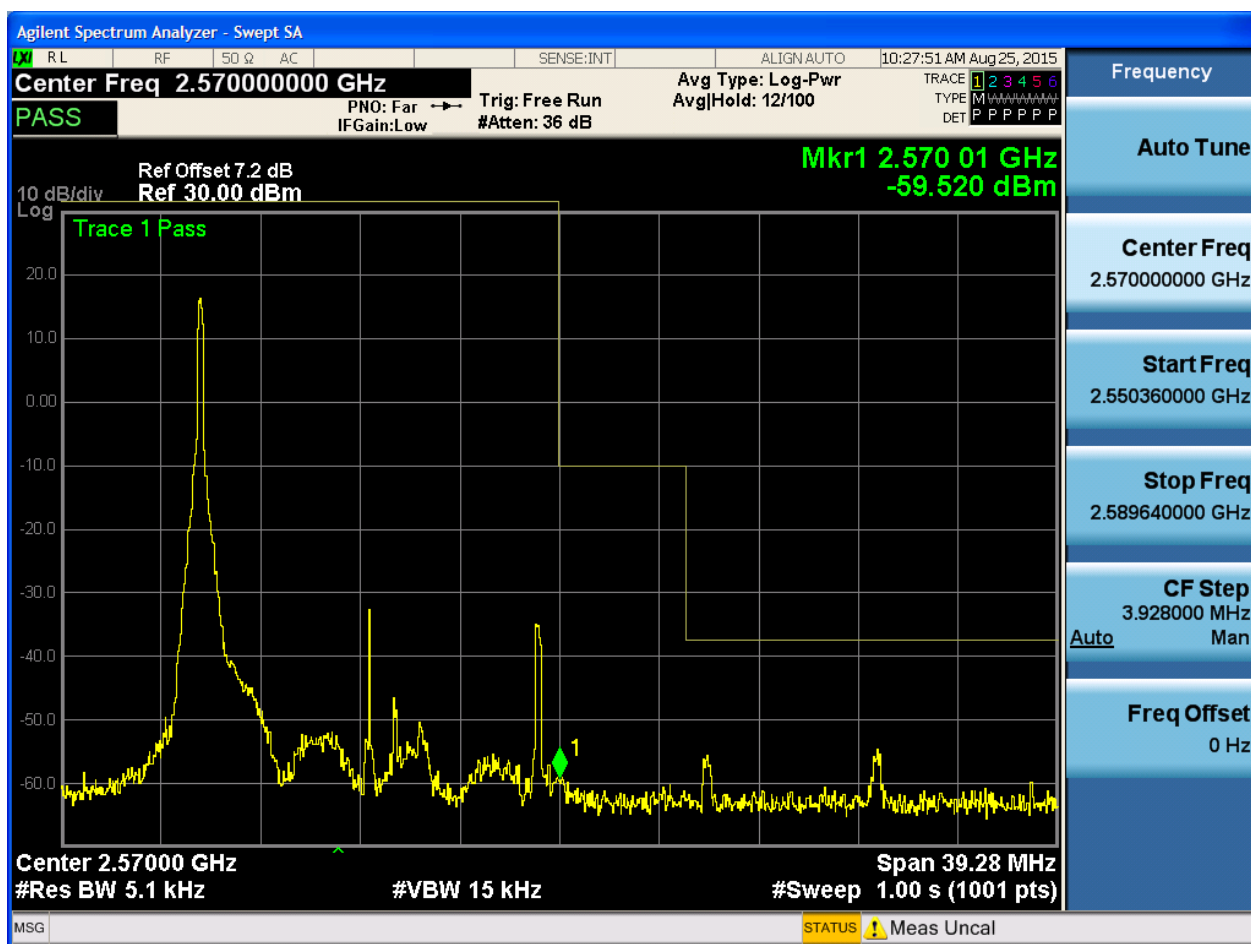
## 5.2.1.1.3.1.4 Test RB = RB75#0





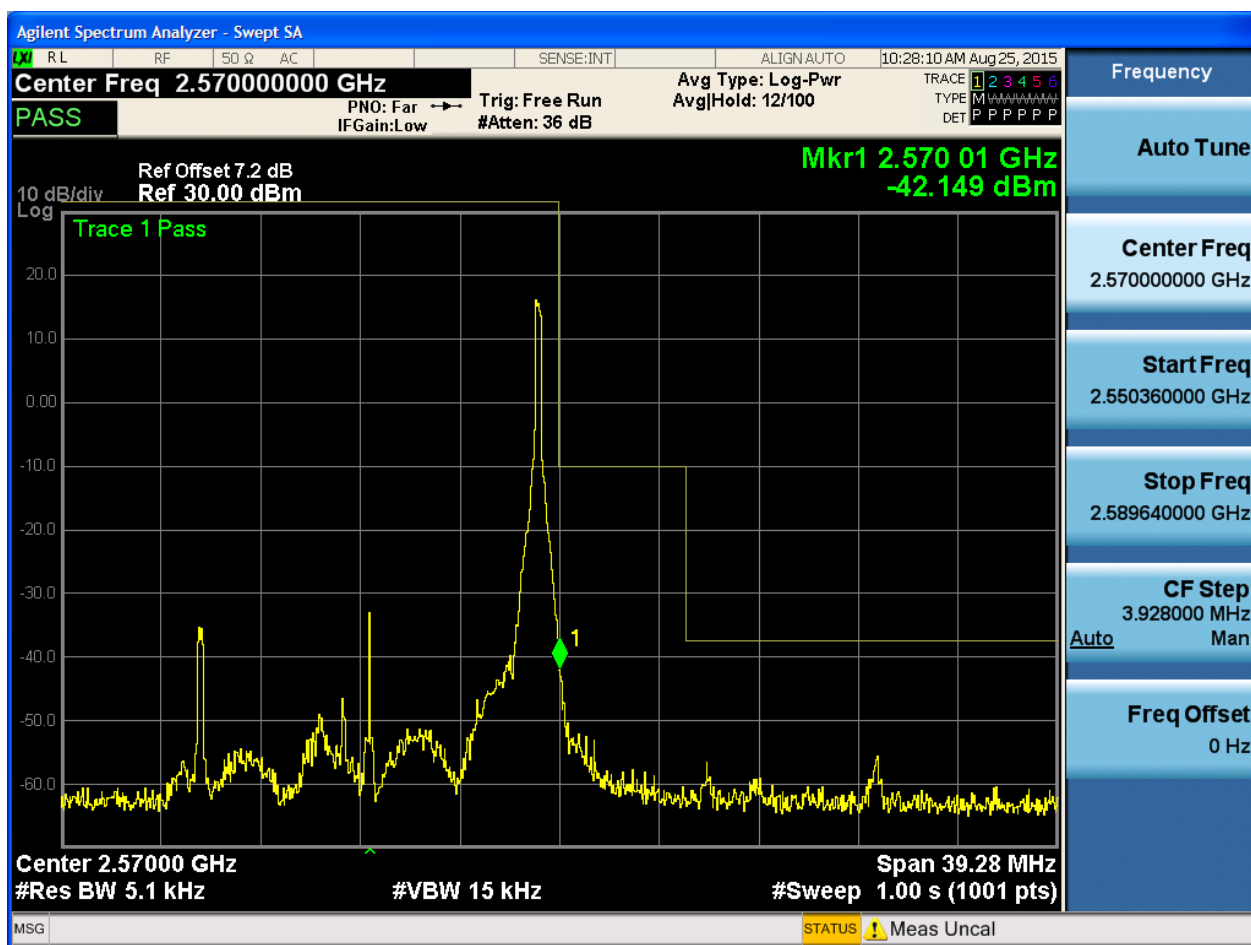
## 5.2.1.1.3.2 Test Channel = HCH

## 5.2.1.1.3.2.1 Test RB = RB1#0





## 5.2.1.1.3.2.2 Test RB = RB1#74





## 5.2.1.1.3.2.3 Test RB = RB36#18





## 5.2.1.1.3.2.4 Test RB = RB75#0

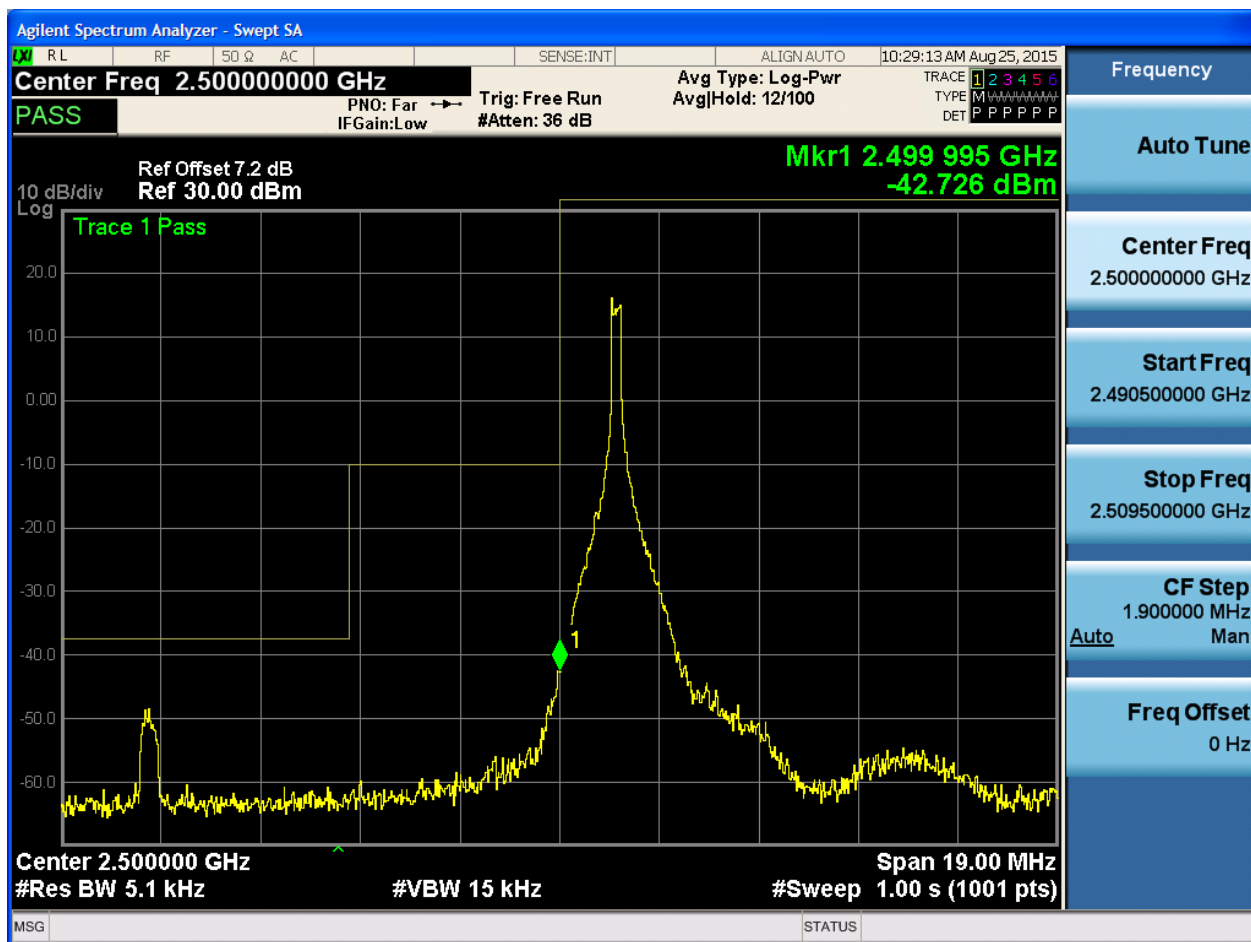




## 5.2.1.1.4 Test Bandwidth = 20

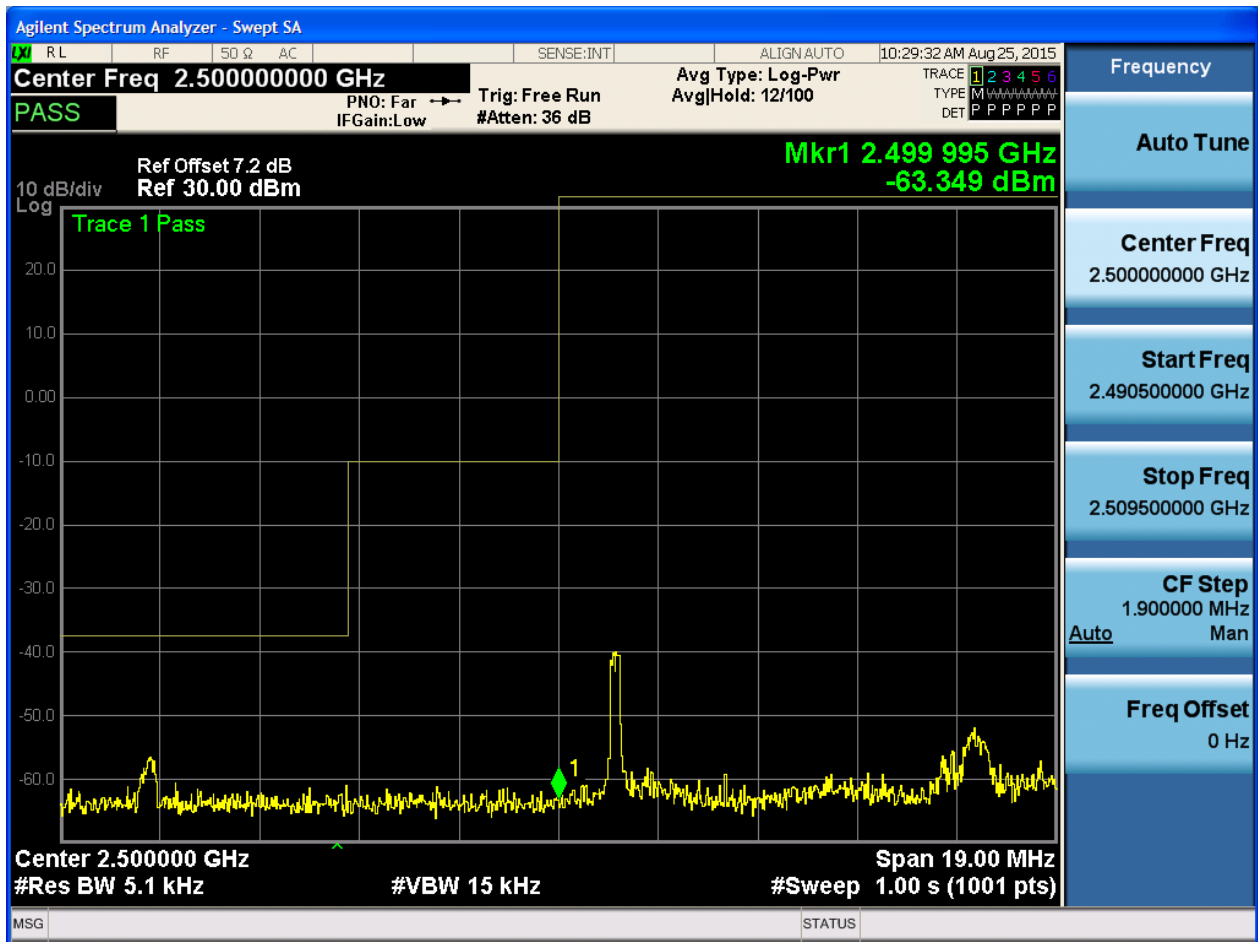
## 5.2.1.1.4.1 Test Channel = LCH

## 5.2.1.1.4.1.1 Test RB = RB1#0





## 5.2.1.1.4.1.2 Test RB = RB1#99



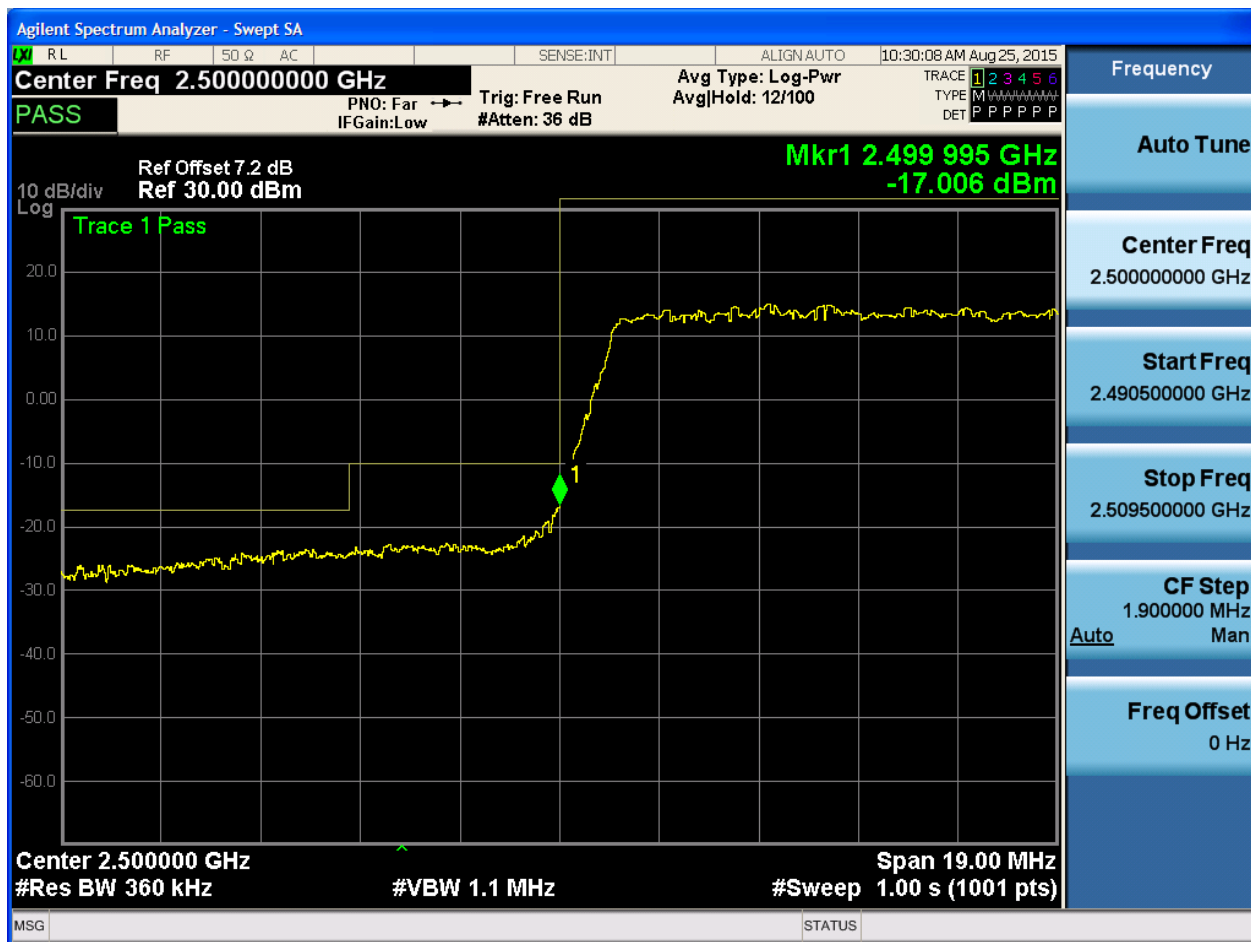


## 5.2.1.1.4.1.3 Test RB = RB50#25



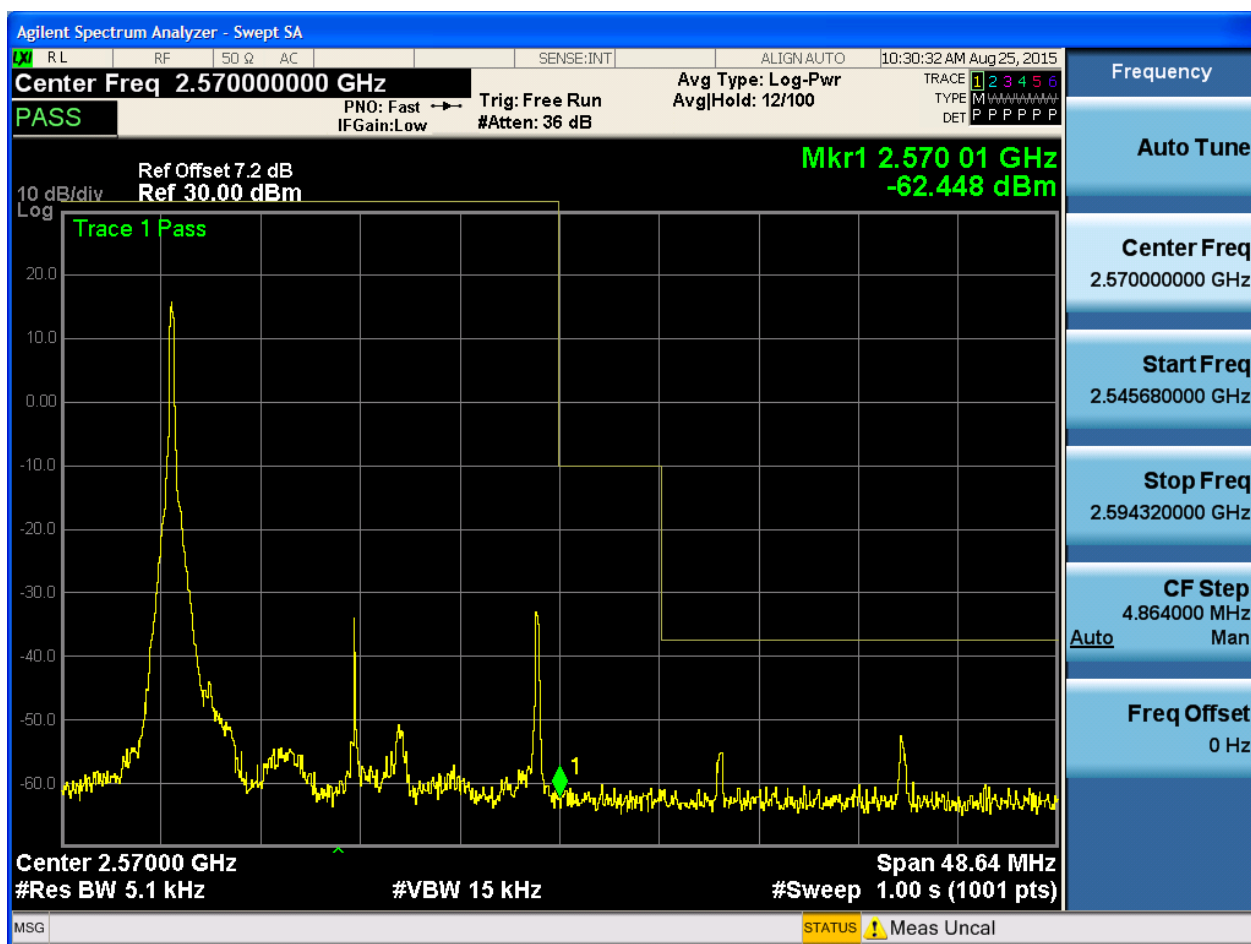


## 5.2.1.1.4.1.4 Test RB = RB100#0



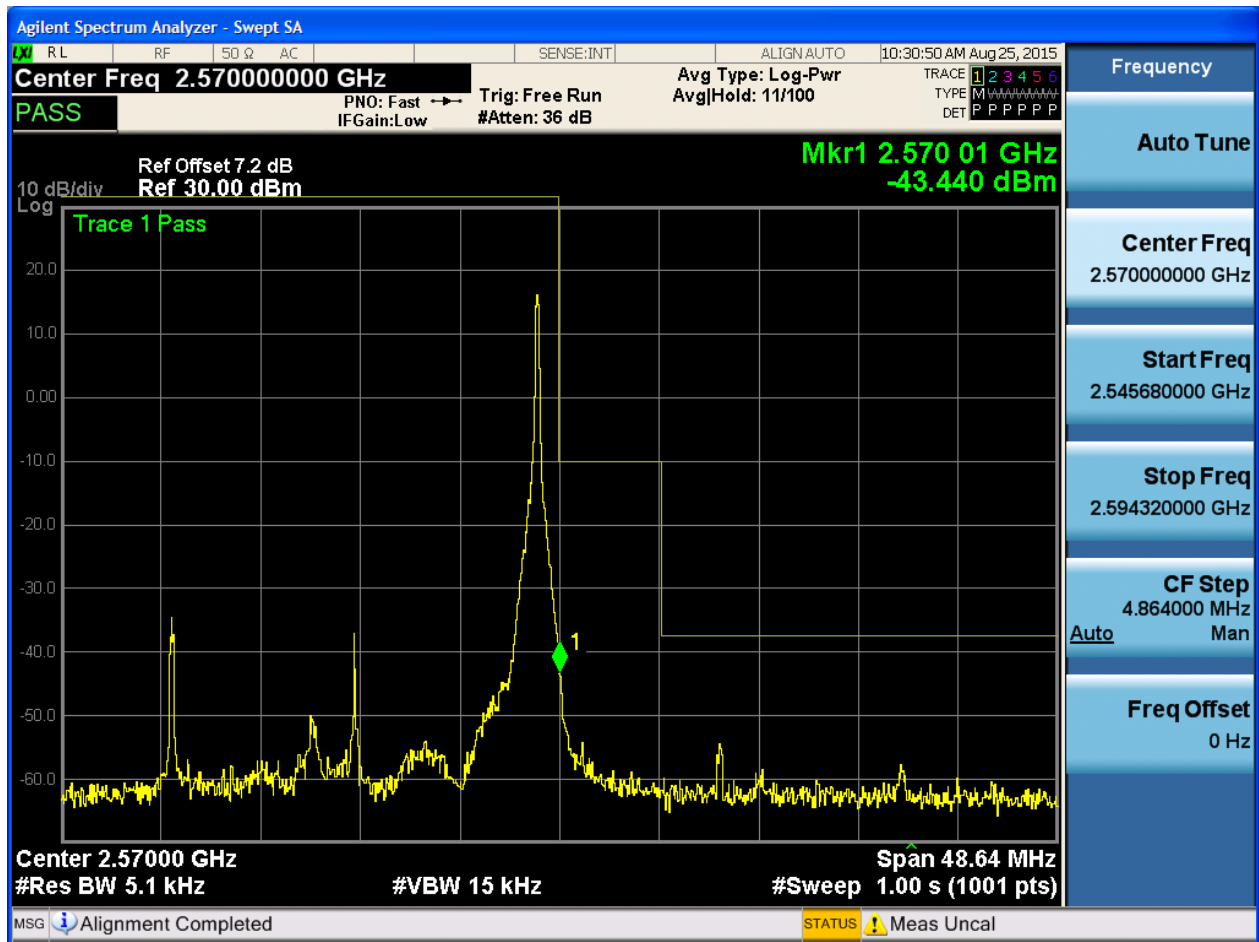
### 5.2.1.1.4.2 Test Channel = HCH

#### 5.2.1.1.4.2.1 Test RB = RB1#0





## 5.2.1.1.4.2.2 Test RB = RB1#99





## 5.2.1.1.4.2.3 Test RB = RB50#25





## 5.2.1.1.4.2.4 Test RB = RB100#0





## 5.2.1.2 Test Mode = LTE/TM2

## 5.2.1.2.1 Test Bandwidth = 5

## 5.2.1.2.1.1 Test Channel = LCH

## 5.2.1.2.1.1.1 Test RB = RB1#0



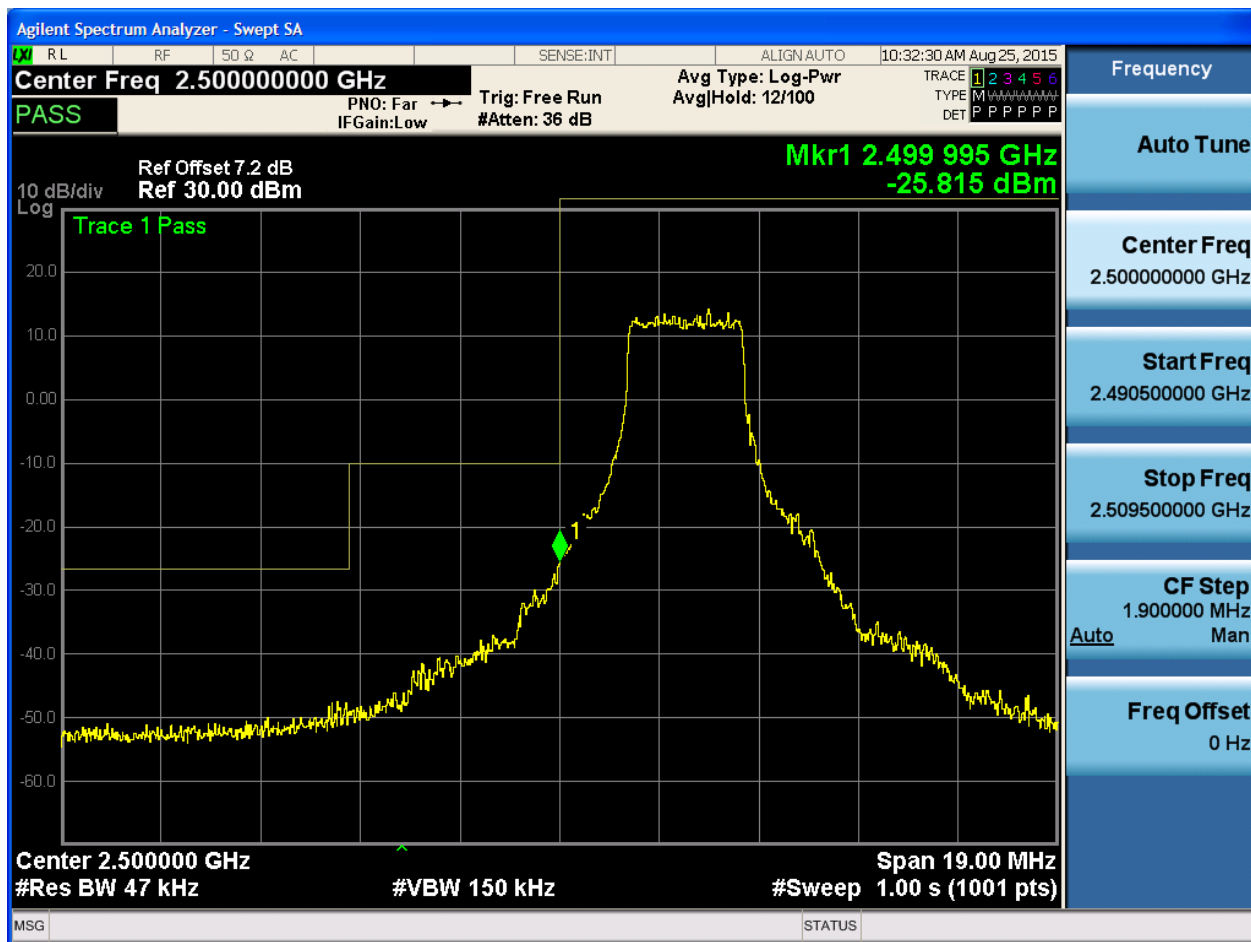


## 5.2.1.2.1.1.2 Test RB = RB1#24



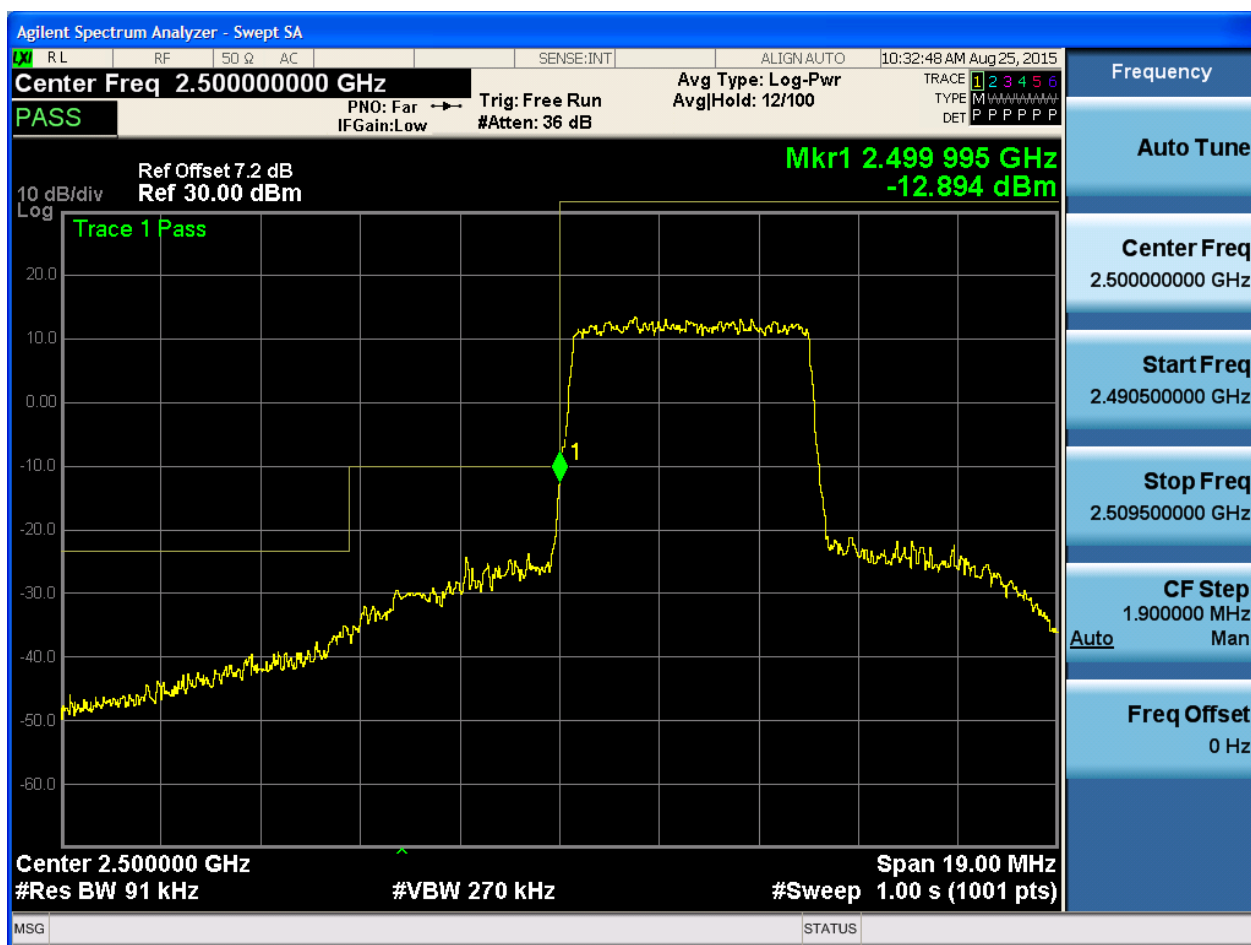


## 5.2.1.2.1.1.3 Test RB = RB12#6



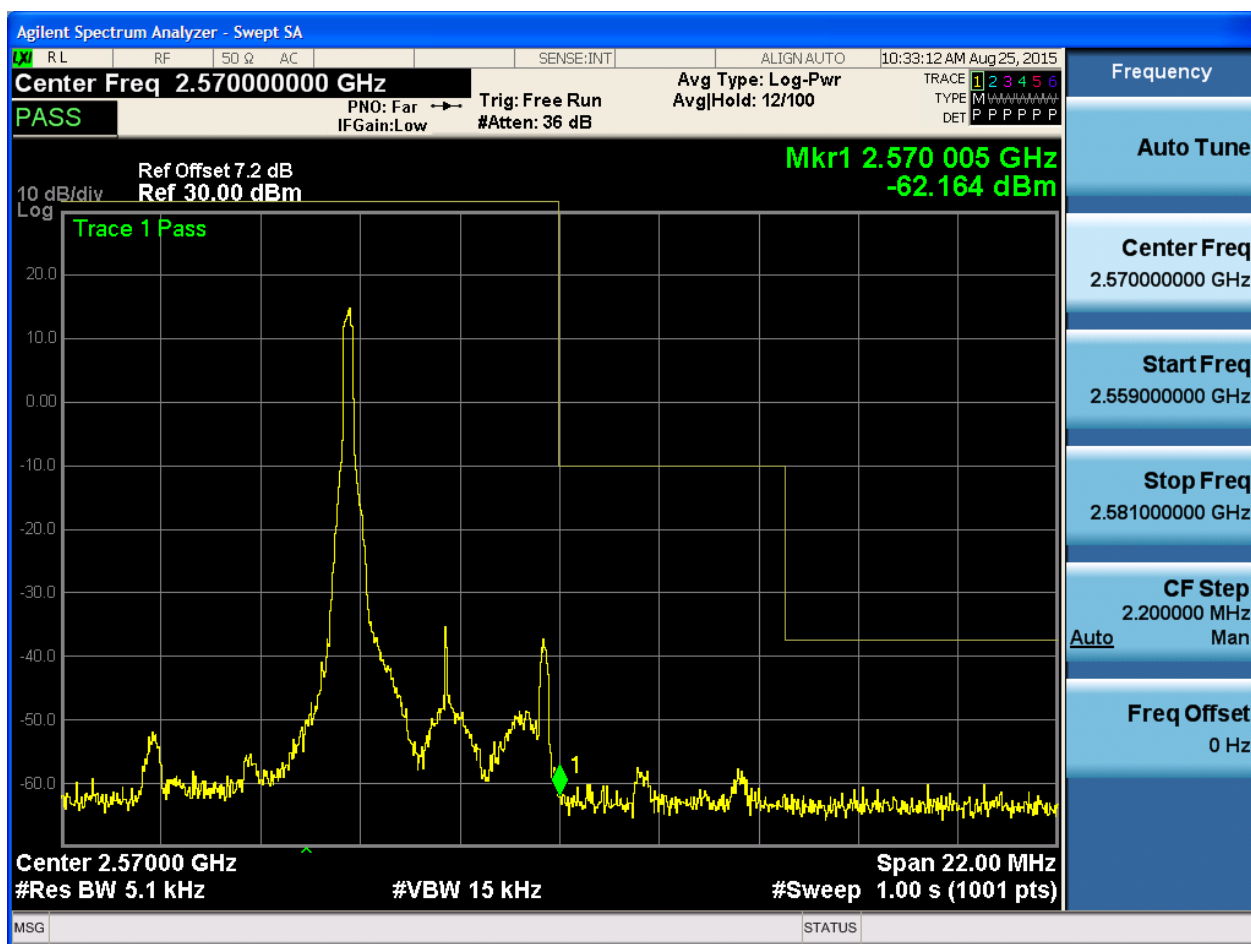


## 5.2.1.2.1.1.4 Test RB = RB25#0



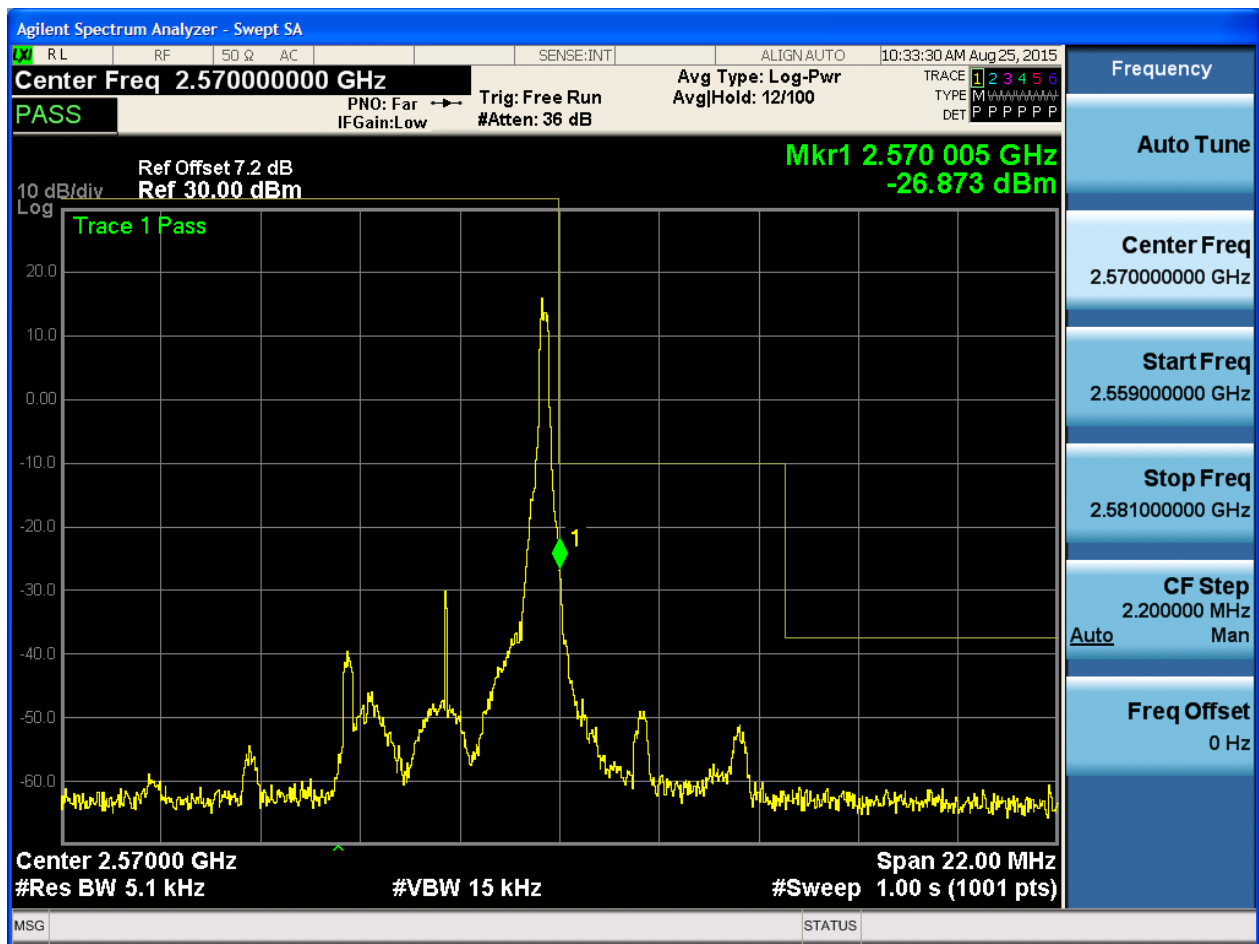
### 5.2.1.2.1.2 Test Channel = HCH

#### 5.2.1.2.1.2.1 Test RB = RB1#0



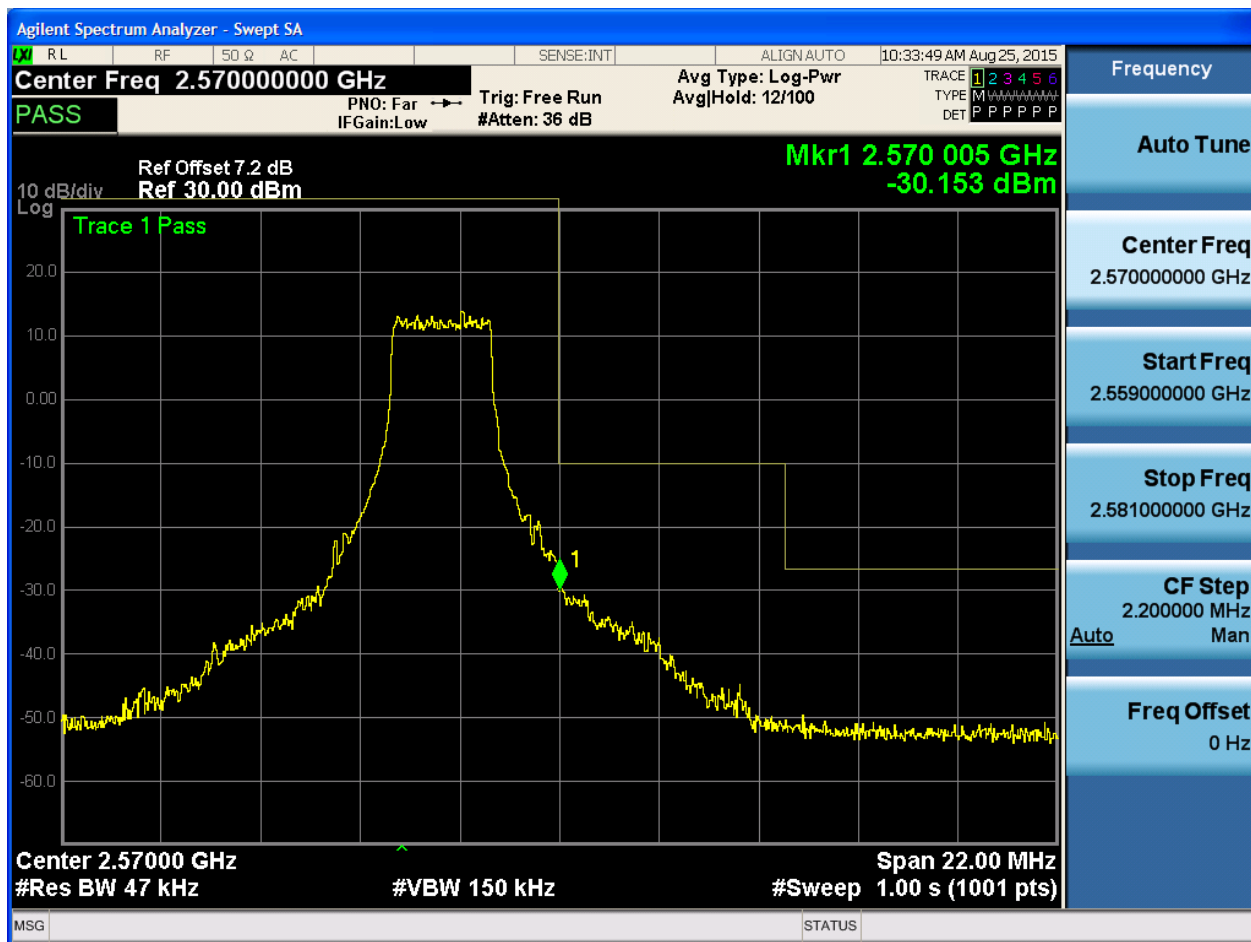


## 5.2.1.2.1.2.2 Test RB = RB1#24





## 5.2.1.2.1.2.3 Test RB = RB12#6





## 5.2.1.2.1.2.4 Test RB = RB25#0

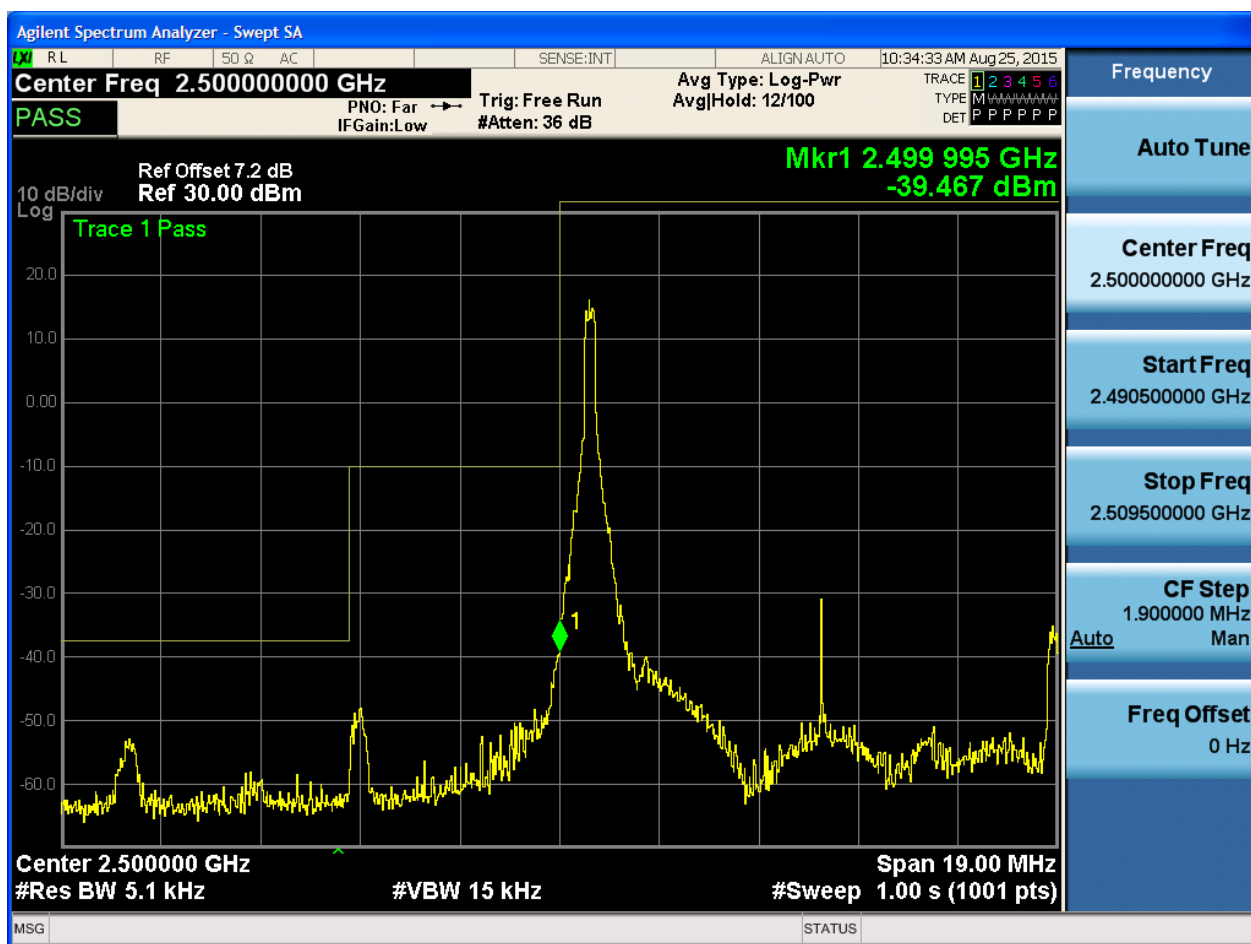




## 5.2.1.2.2 Test Bandwidth = 10

## 5.2.1.2.2.1 Test Channel = LCH

## 5.2.1.2.2.1.1 Test RB = RB1#0





## 5.2.1.2.2.1.2 Test RB = RB1#49



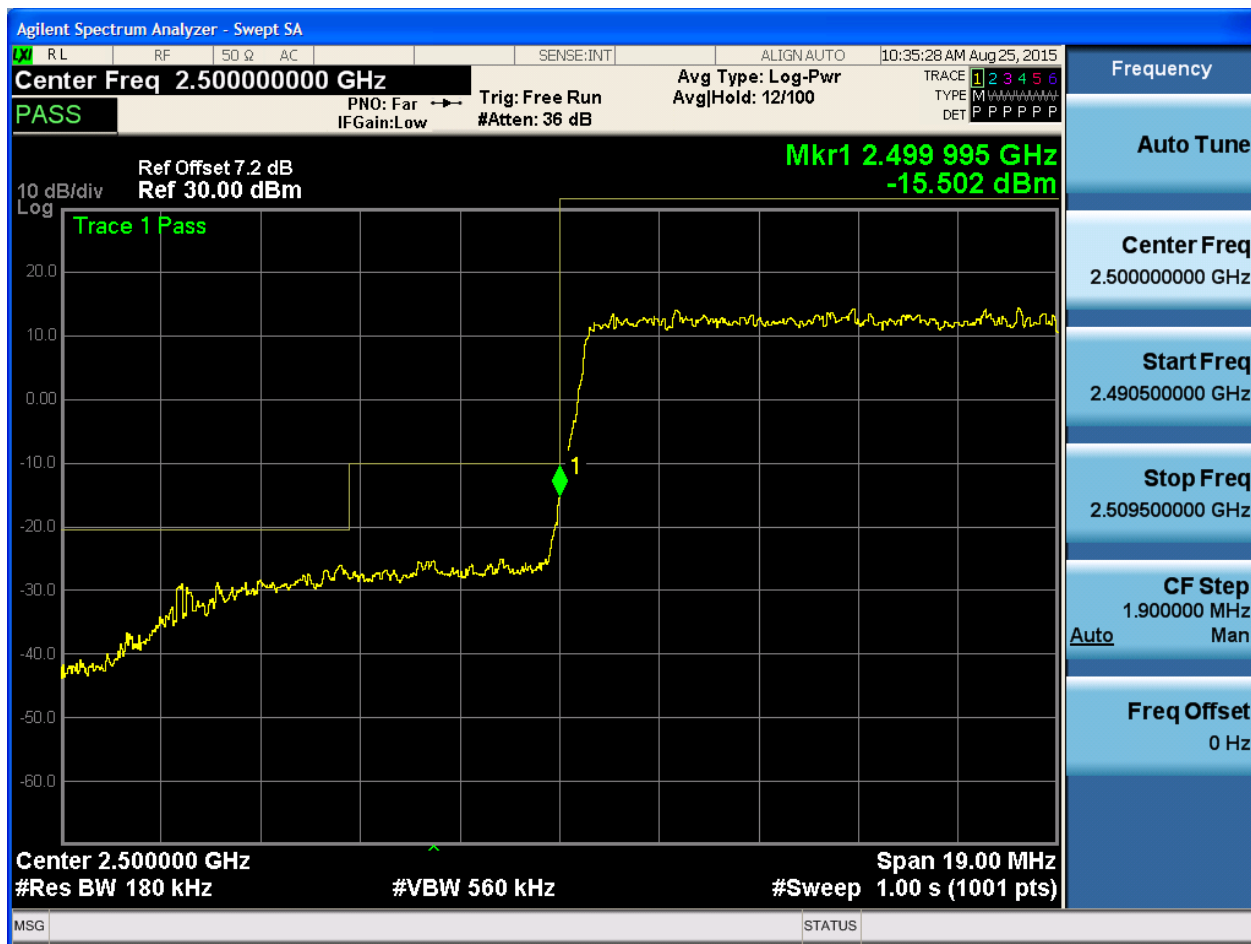


## 5.2.1.2.2.1.3 Test RB = RB25#13





## 5.2.1.2.2.1.4 Test RB = RB50#0





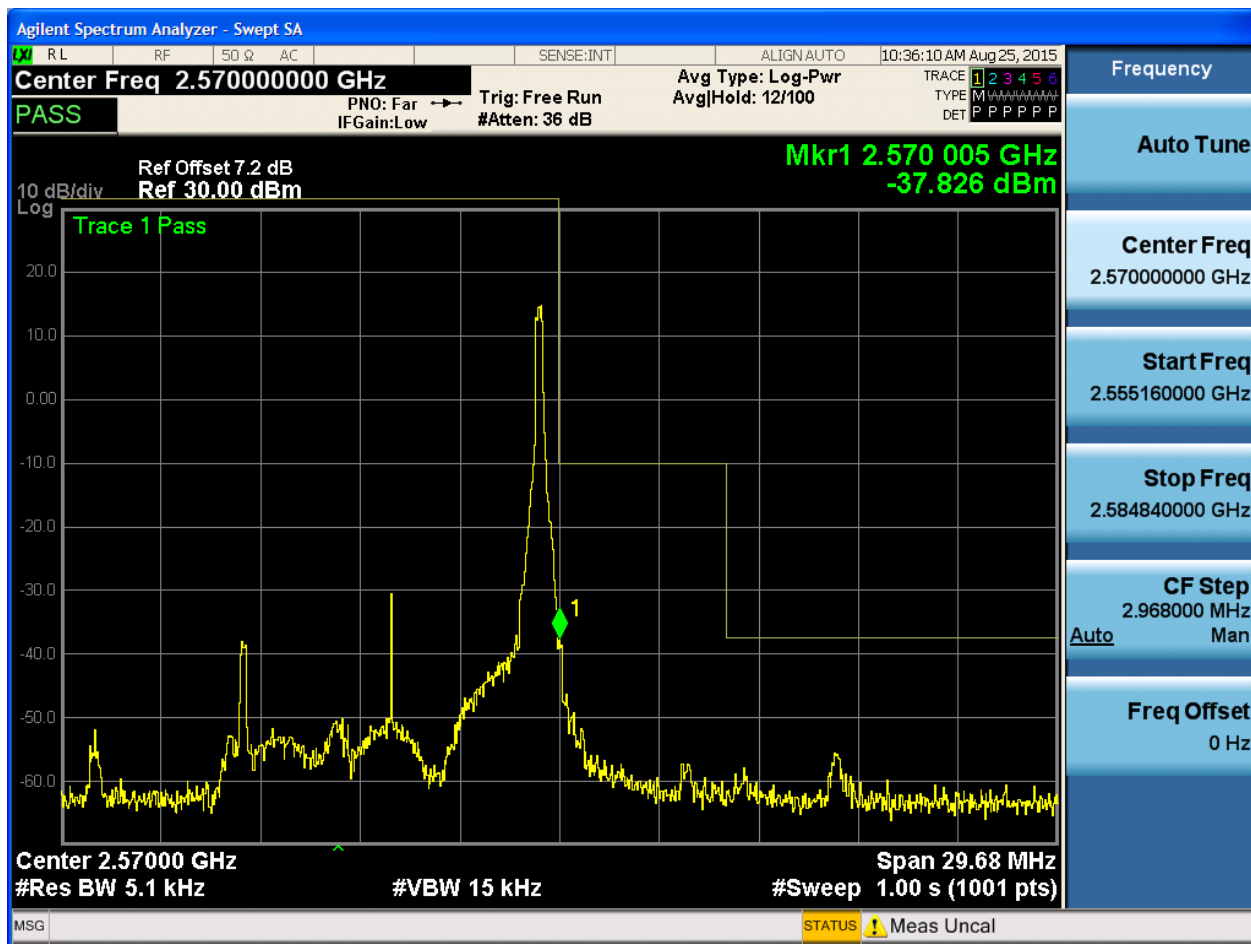
## 5.2.1.2.2.2 Test Channel = HCH

## 5.2.1.2.2.2.1 Test RB = RB1#0



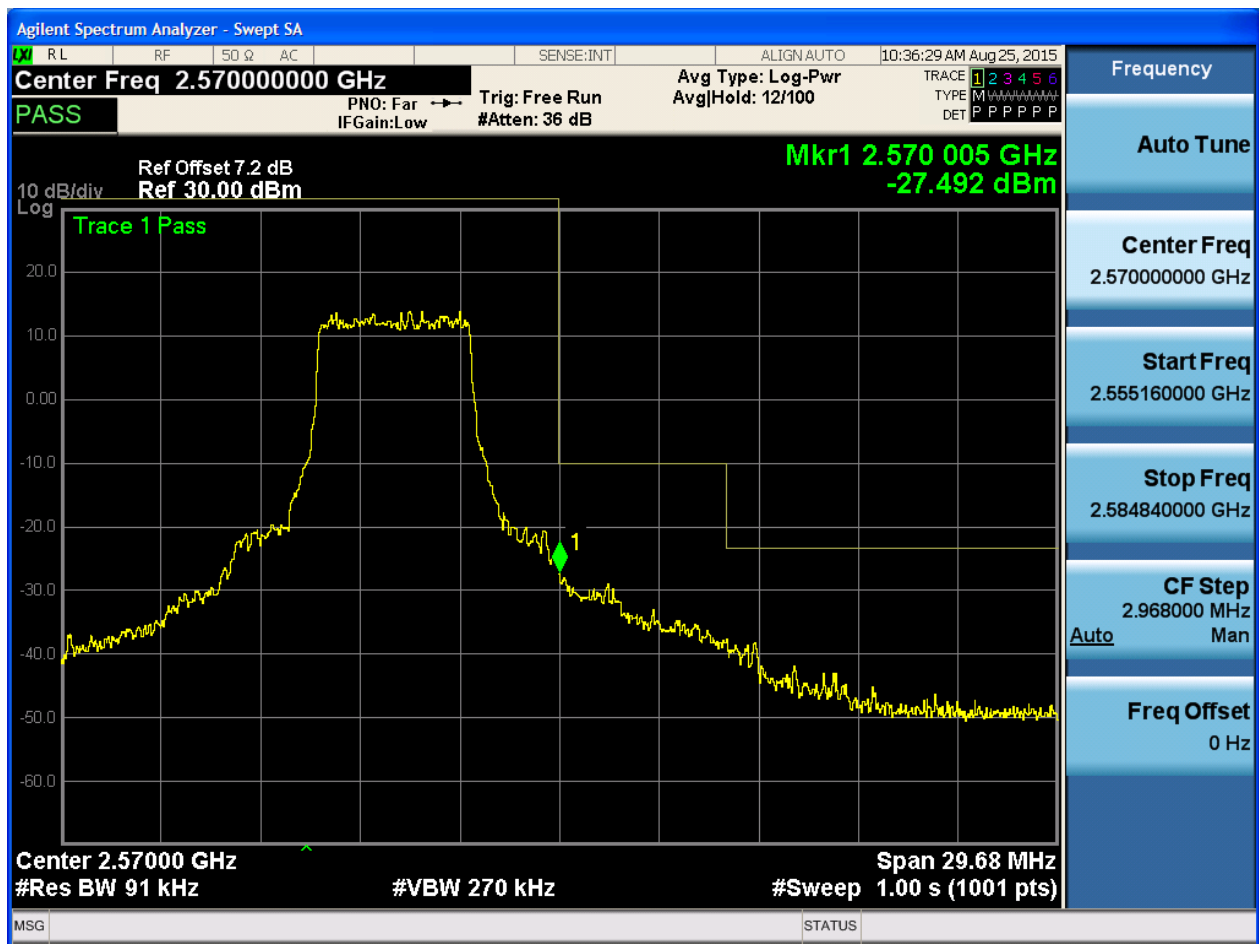


## 5.2.1.2.2.2 Test RB = RB1#49





## 5.2.1.2.2.3 Test RB = RB25#13





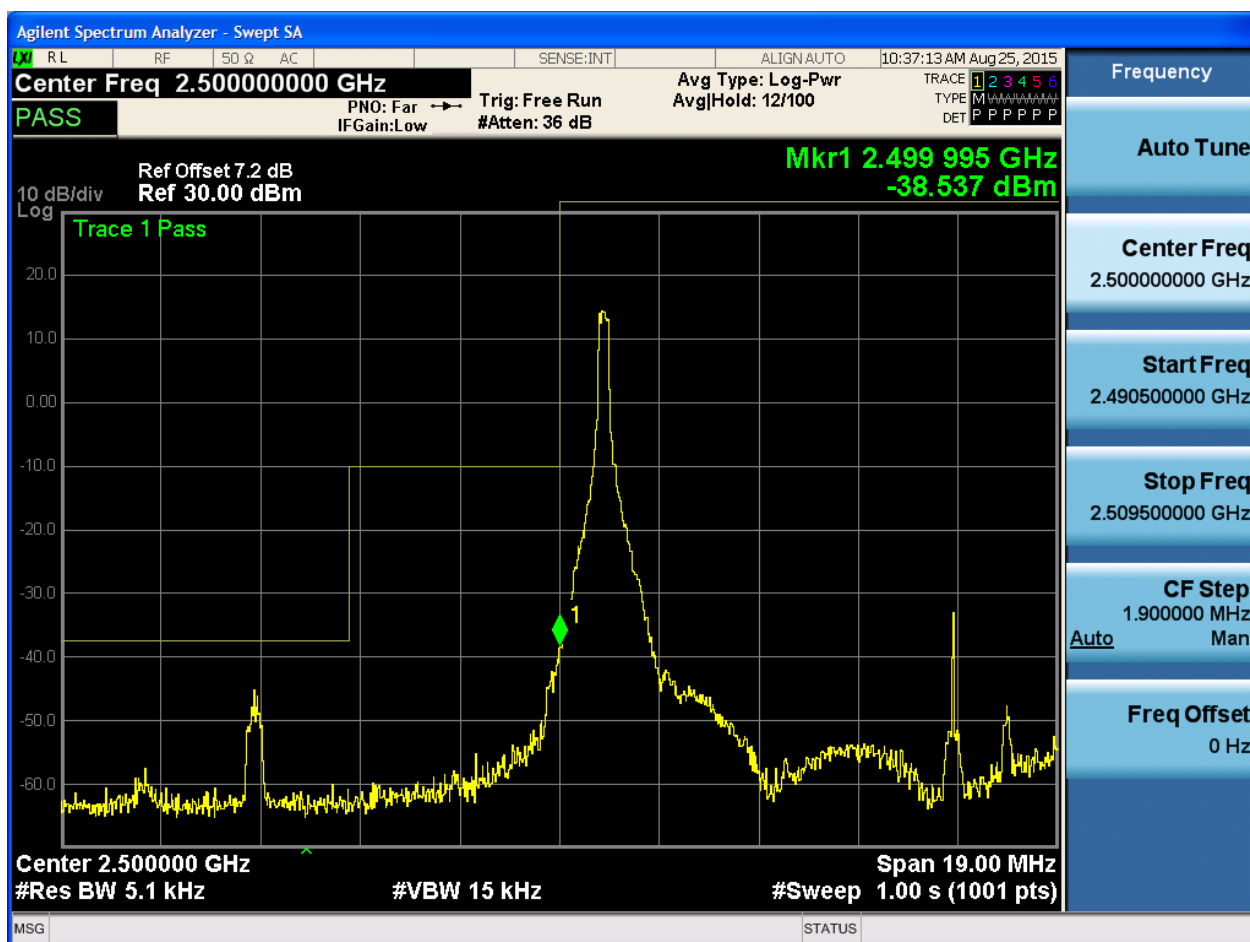
## 5.2.1.2.2.4 Test RB = RB50#0



#### 5.2.1.2.3 Test Bandwidth = 15

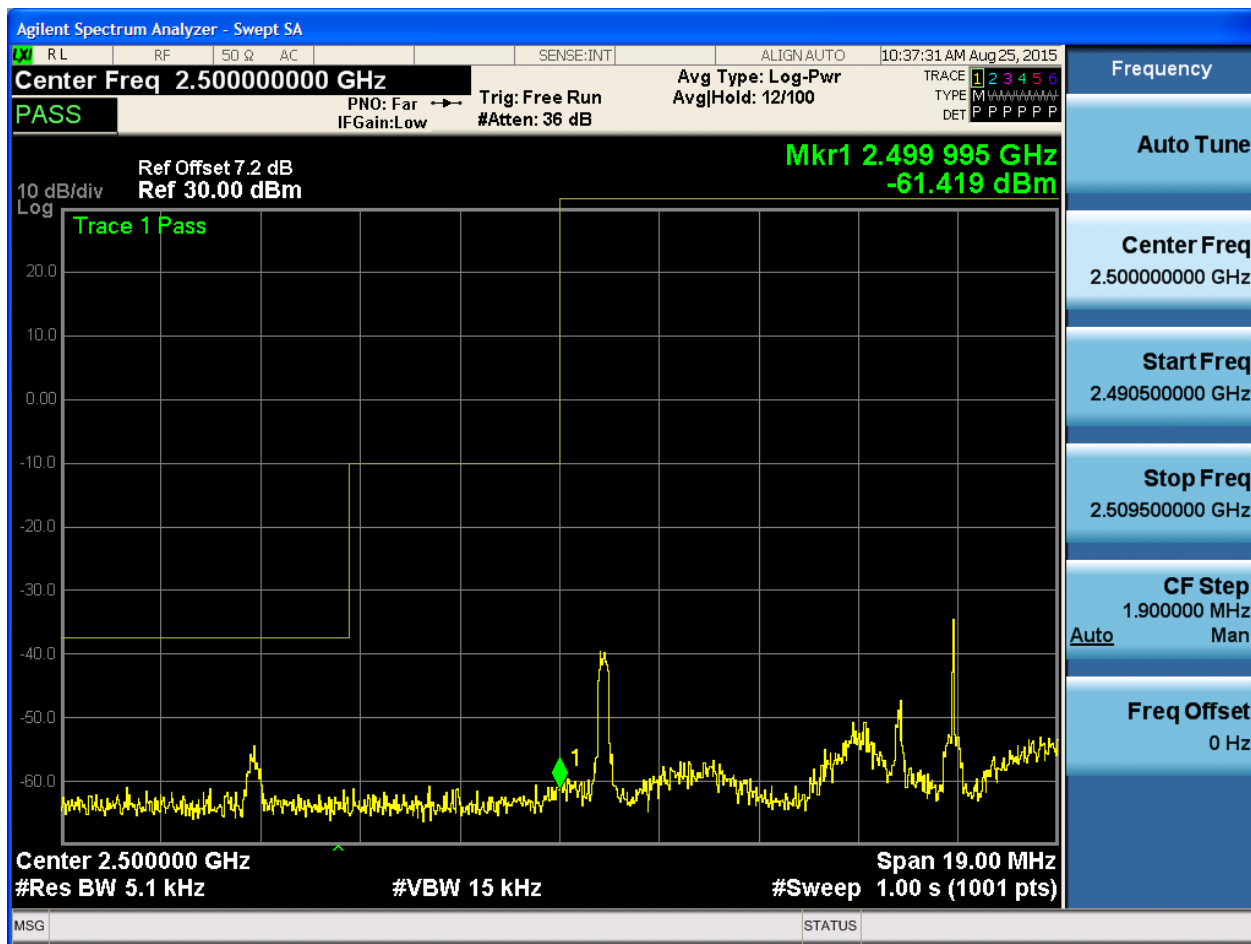
#### 5.2.1.2.3.1 Test Channel = LCH

#### 5.2.1.2.3.1.1 Test RB = RB1#0





## 5.2.1.2.3.1.2 Test RB = RB1#74



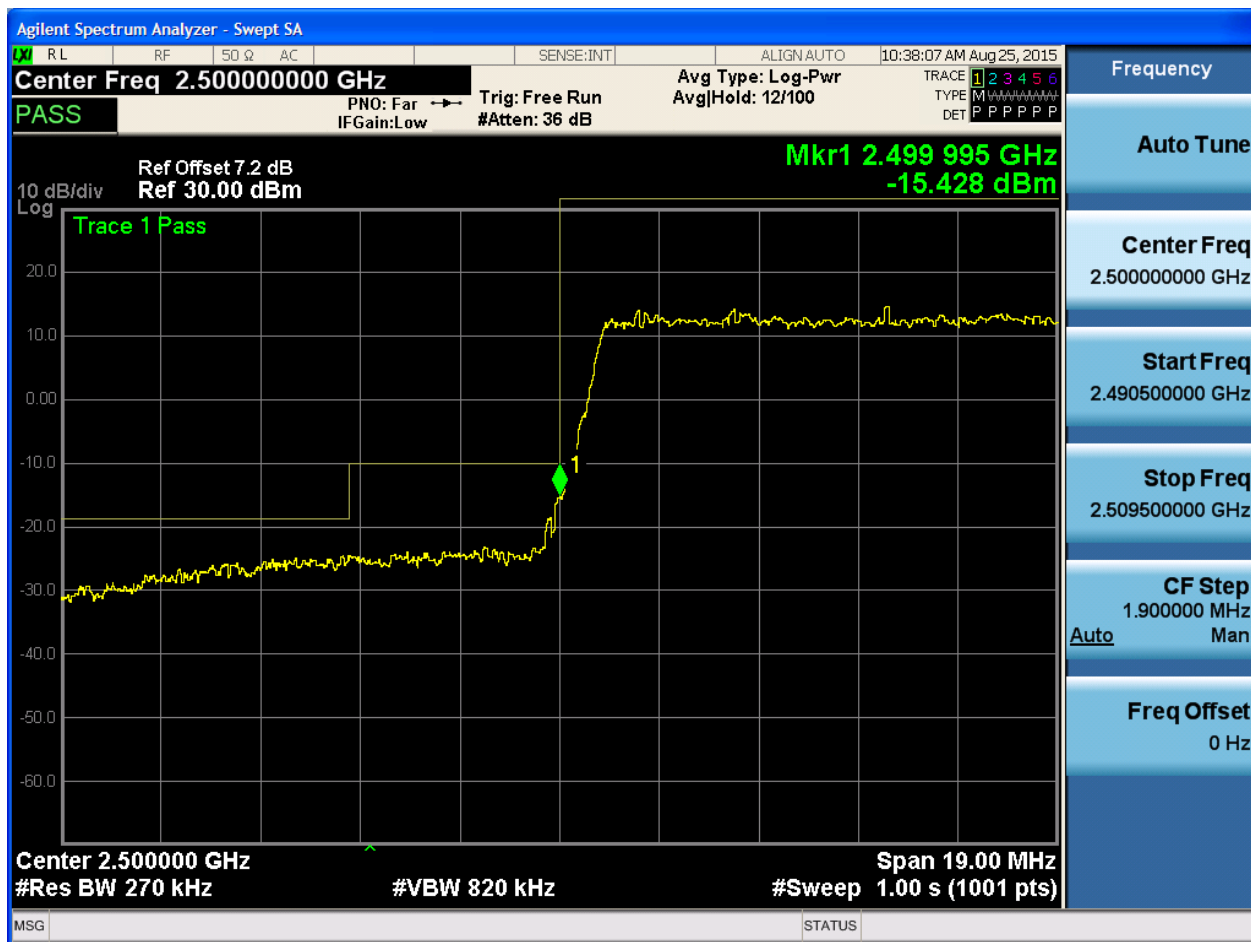


## 5.2.1.2.3.1.3 Test RB = RB36#18





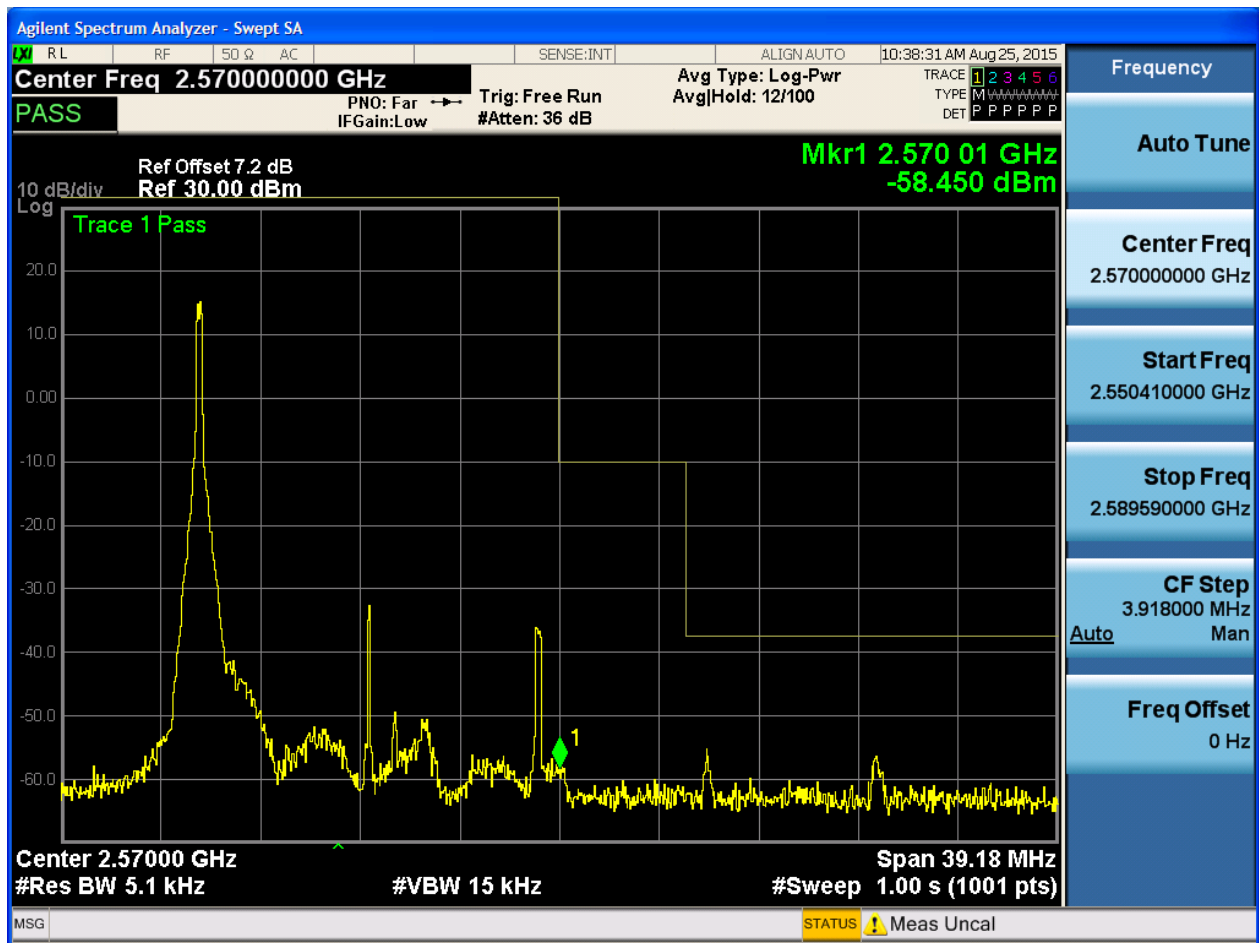
## 5.2.1.2.3.1.4 Test RB = RB75#0





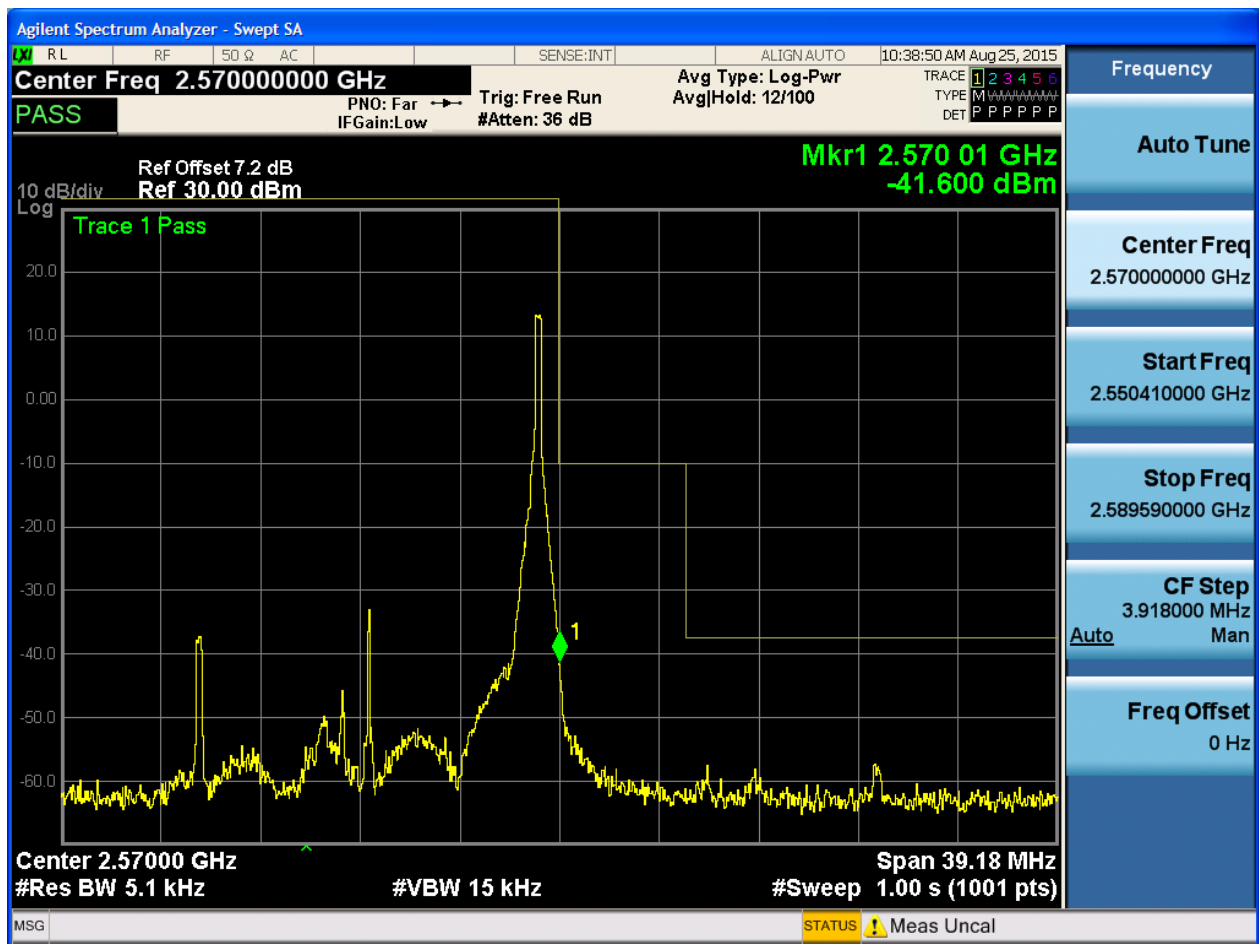
## 5.2.1.2.3.2 Test Channel = HCH

## 5.2.1.2.3.2.1 Test RB = RB1#0





## 5.2.1.2.3.2.2 Test RB = RB1#74





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.570000000 GHz

PASS

Ref Offset 7.2 dB  
Ref 30.00 dBm

10 dB/div  
Log

Trace 1 Pass

Mkr1 2.5701 GHz  
-25.874 dBm

Center 2.57000 GHz  
#Res BW 130 kHz  
#VBW 390 kHz  
Span 39.18 MHz  
#Sweep 1.00 s (1001 pts)

Frequency

Auto Tune

Center Freq  
2.570000000 GHz

Start Freq  
2.550410000 GHz

Stop Freq  
2.589590000 GHz

CF Step  
3.918000 MHz  
Man

Auto

Freq Offset  
0 Hz



## 5.2.1.2.3.2.4 Test RB = RB75#0

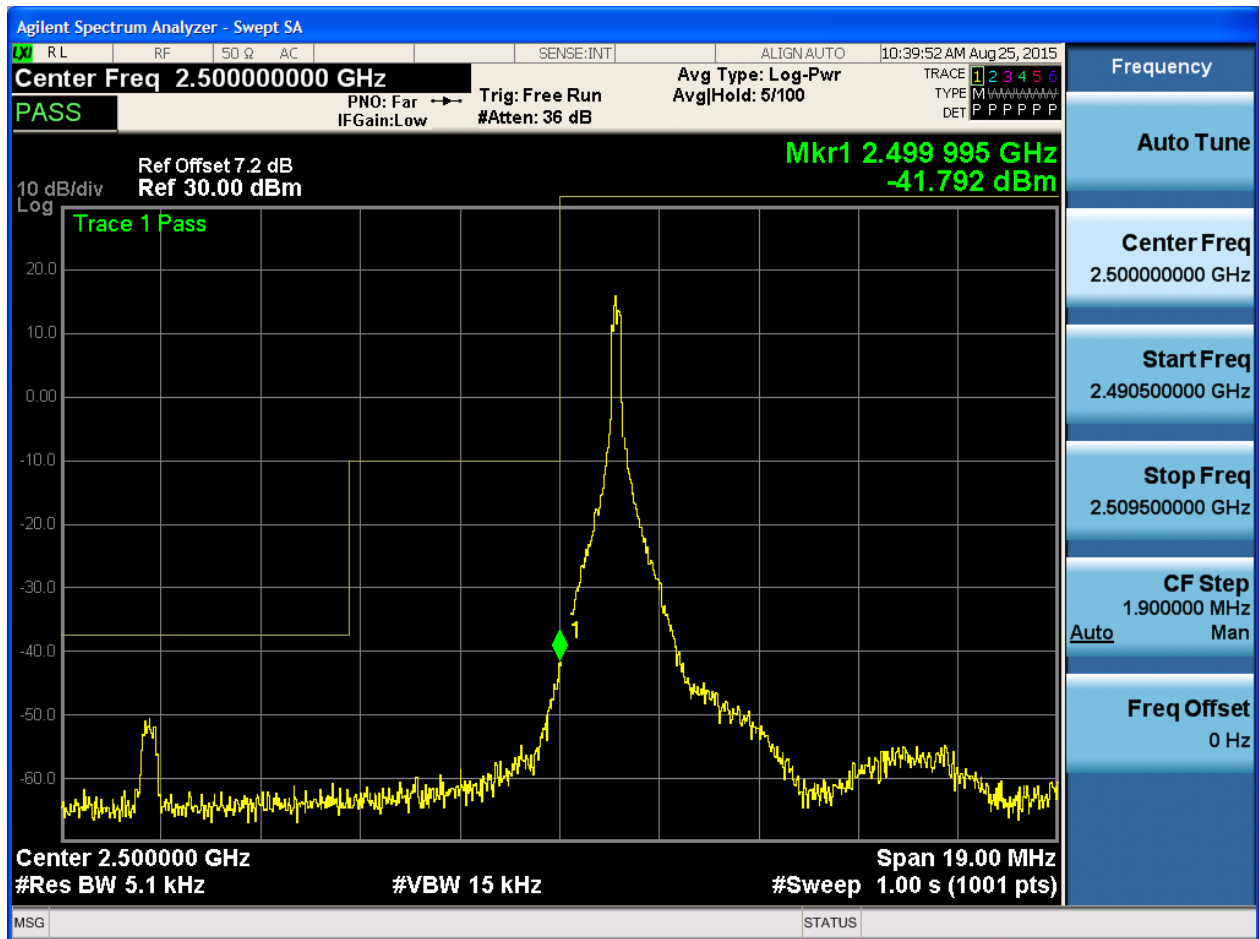




## 5.2.1.2.4 Test Bandwidth = 20

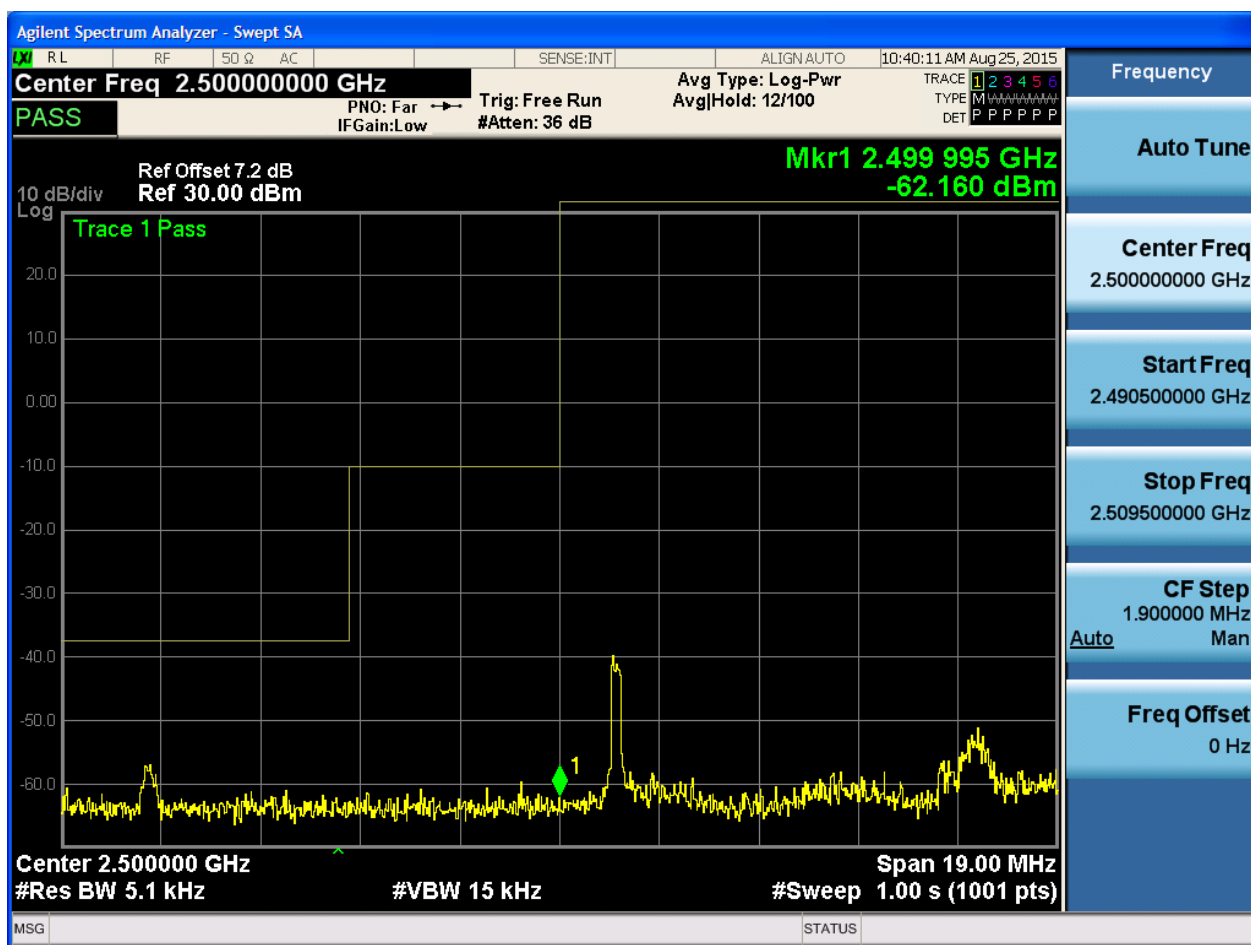
## 5.2.1.2.4.1 Test Channel = LCH

## 5.2.1.2.4.1.1 Test RB = RB1#0





## 5.2.1.2.4.1.2 Test RB = RB1#99



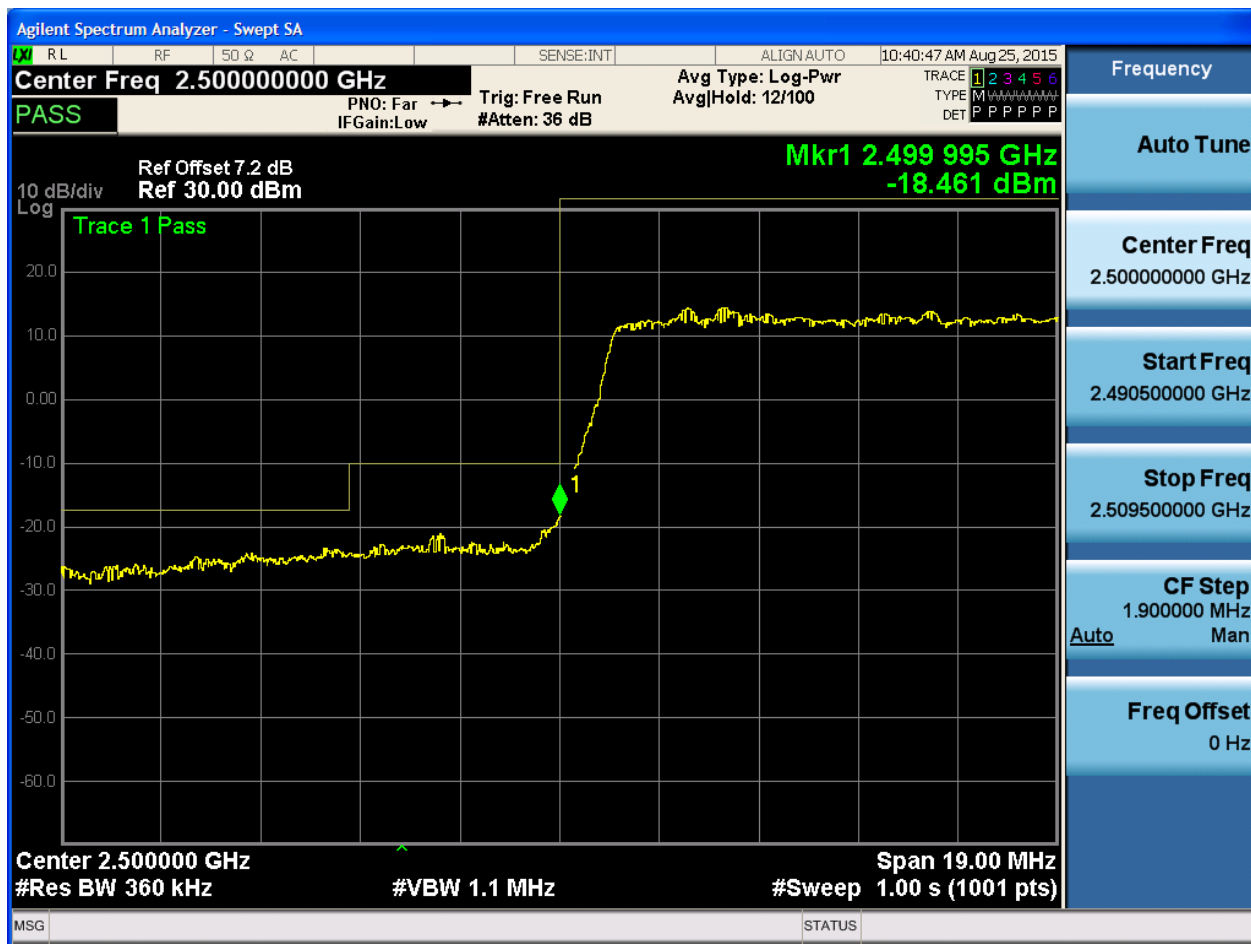


## 5.2.1.2.4.1.3 Test RB = RB50#25





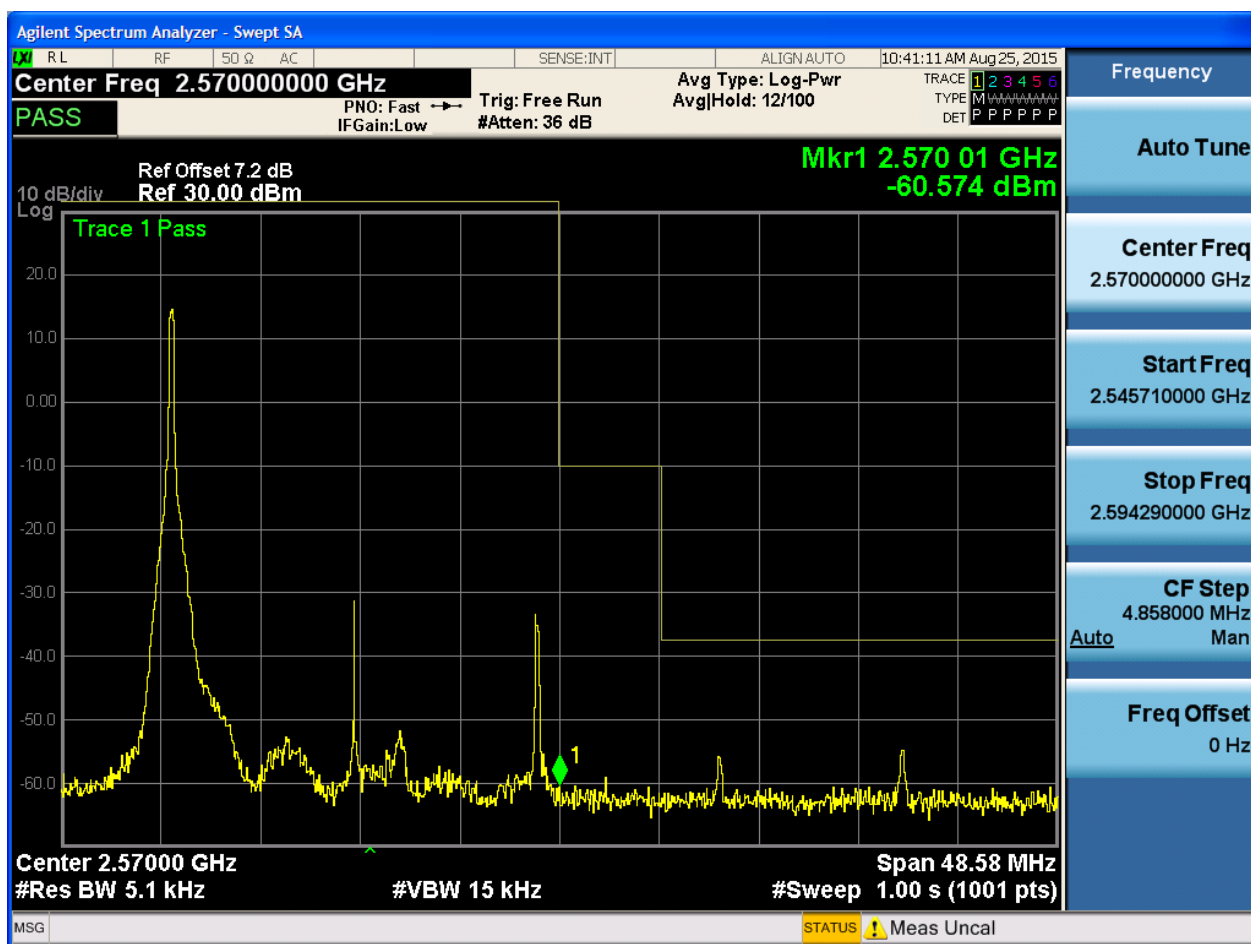
## 5.2.1.2.4.1.4 Test RB = RB100#0





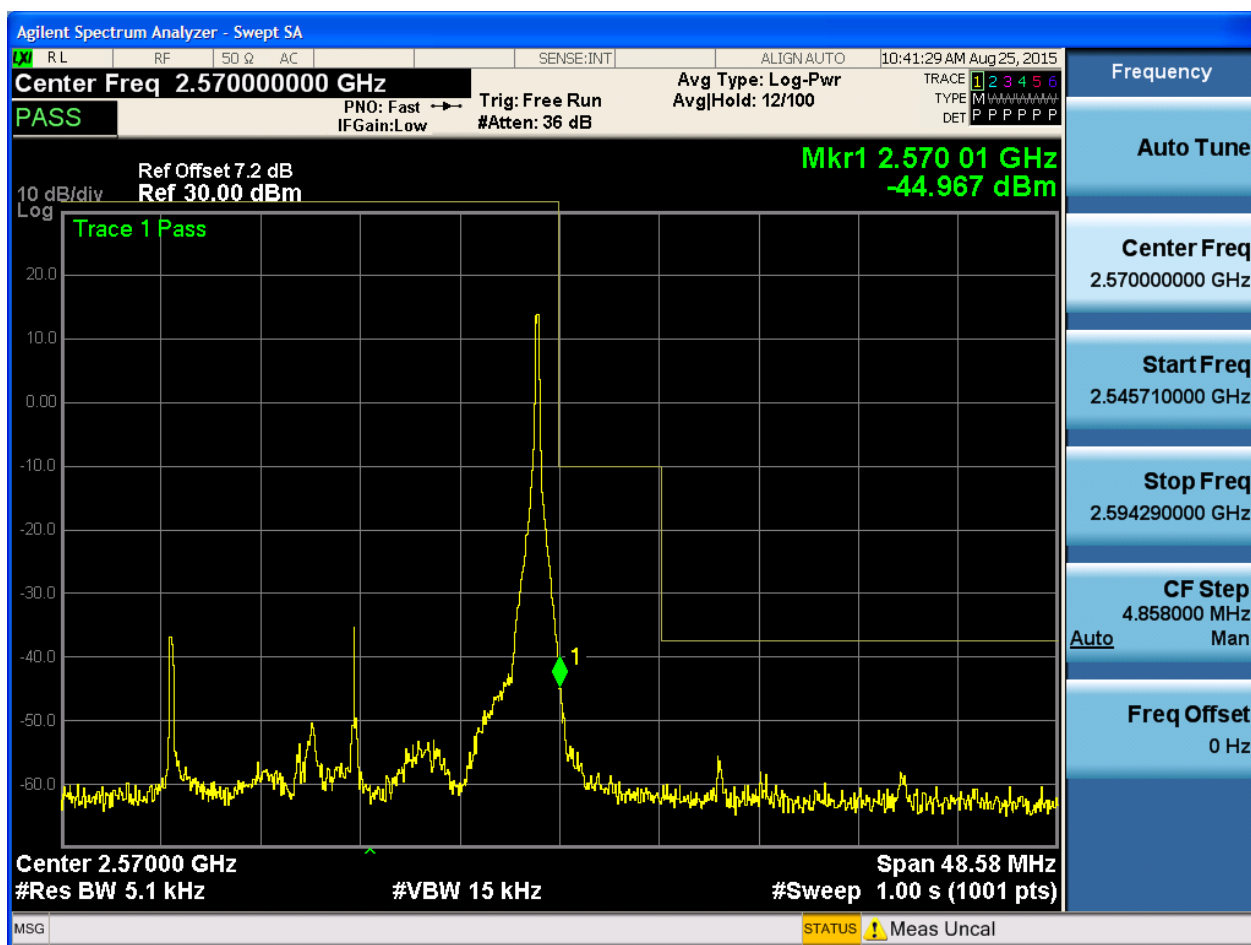
## 5.2.1.2.4.2 Test Channel = HCH

## 5.2.1.2.4.2.1 Test RB = RB1#0





## 5.2.1.2.4.2.2 Test RB = RB1#99





## 5.2.1.2.4.2.3 Test RB = RB50#25





## 5.2.1.2.4.2.4 Test RB = RB100#0



## 6Appendix\_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

### Part I - Test Plots

#### 6.1 For LTE

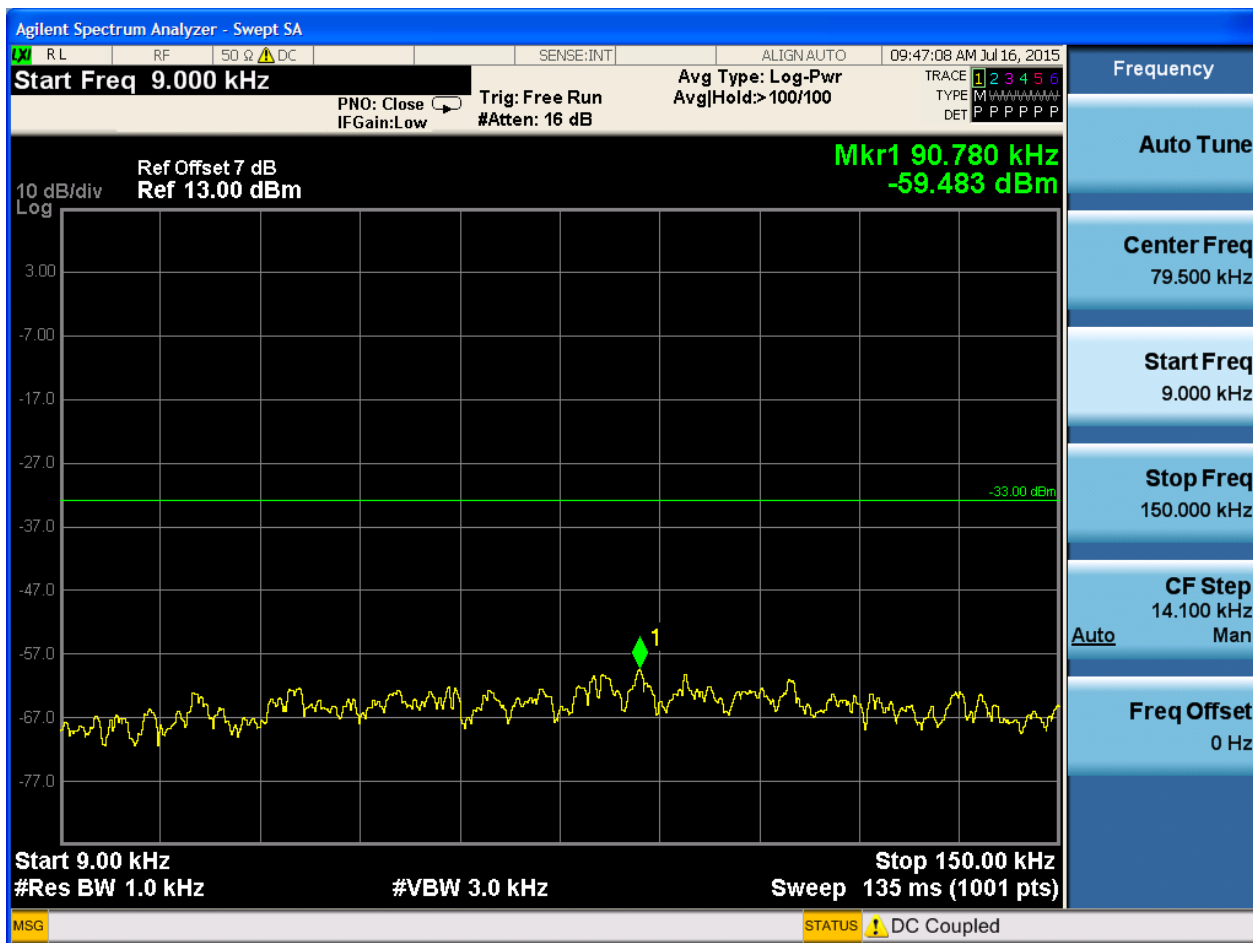
##### 6.1.1 Test Band = BAND5

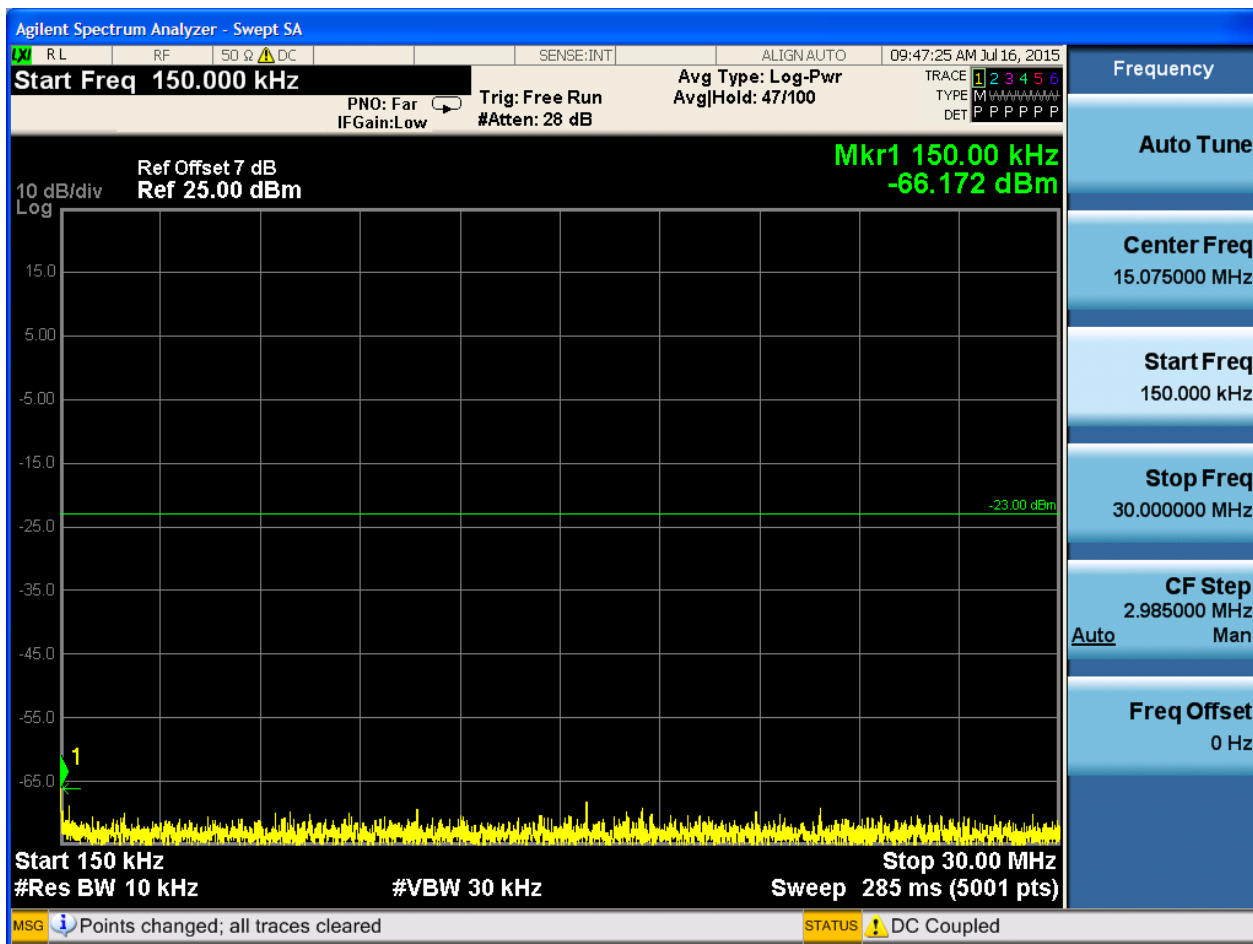
##### 6.1.1.1 Test Mode = LTE/TM1

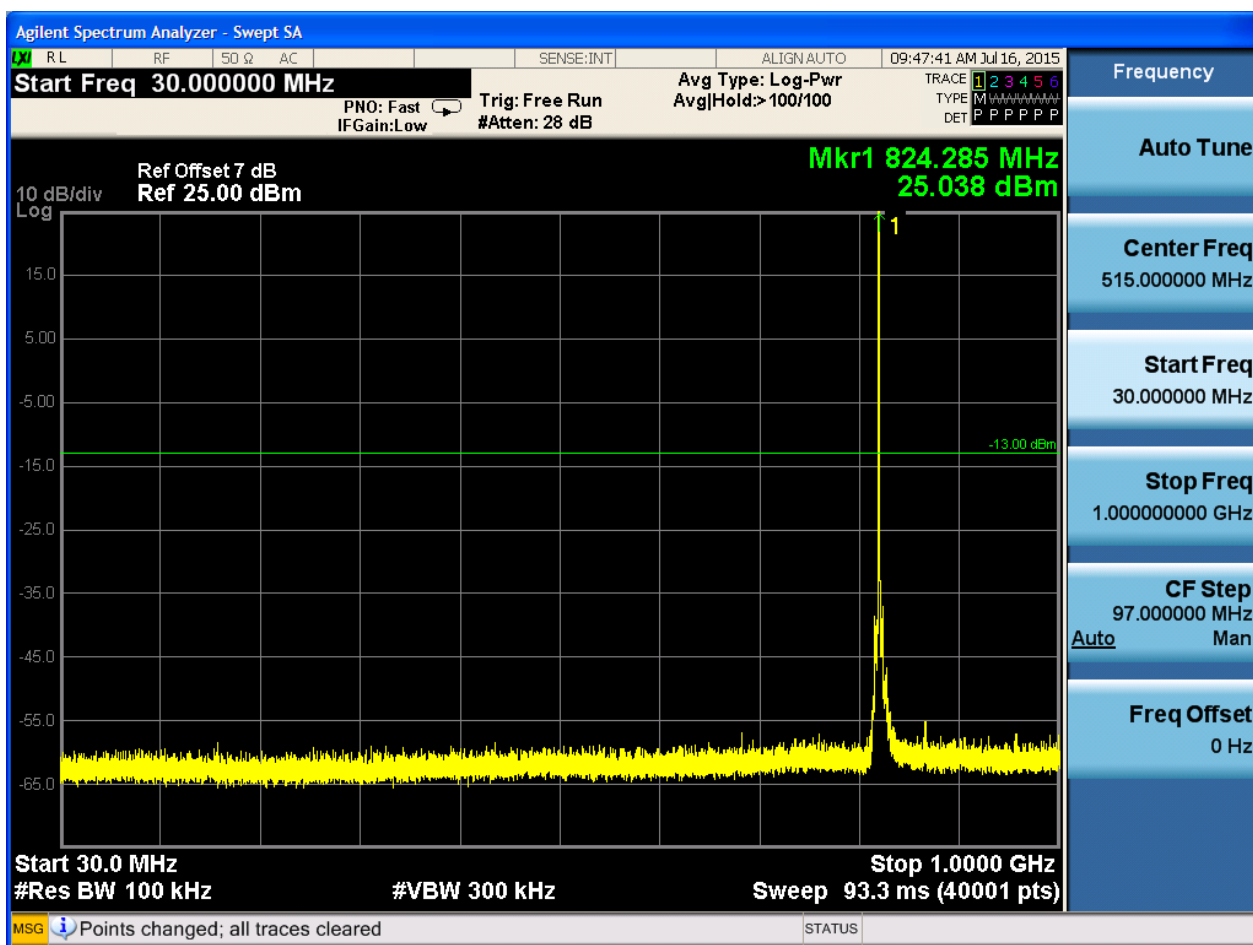
##### 6.1.1.1.1 Test Bandwidth = 1.4

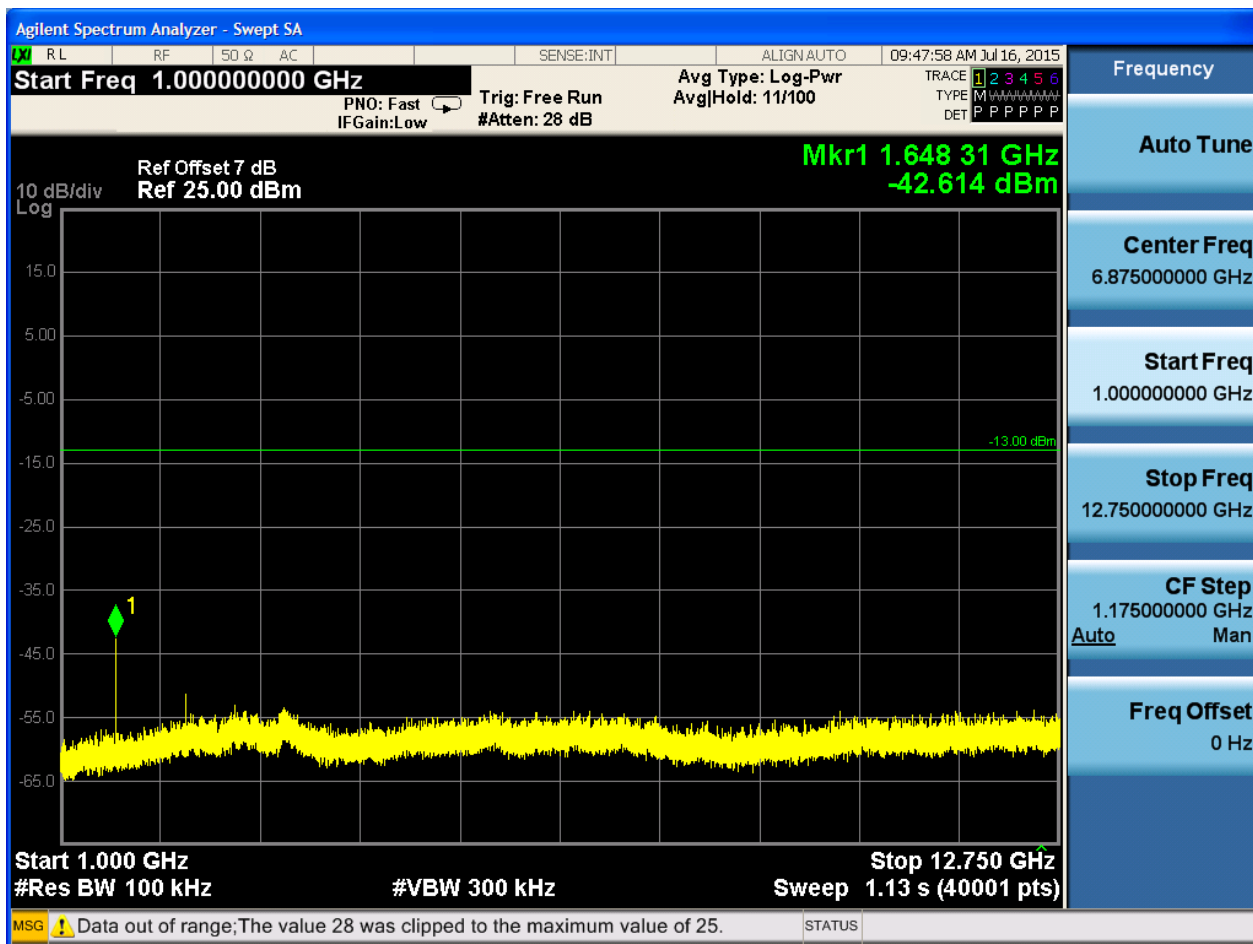
##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0



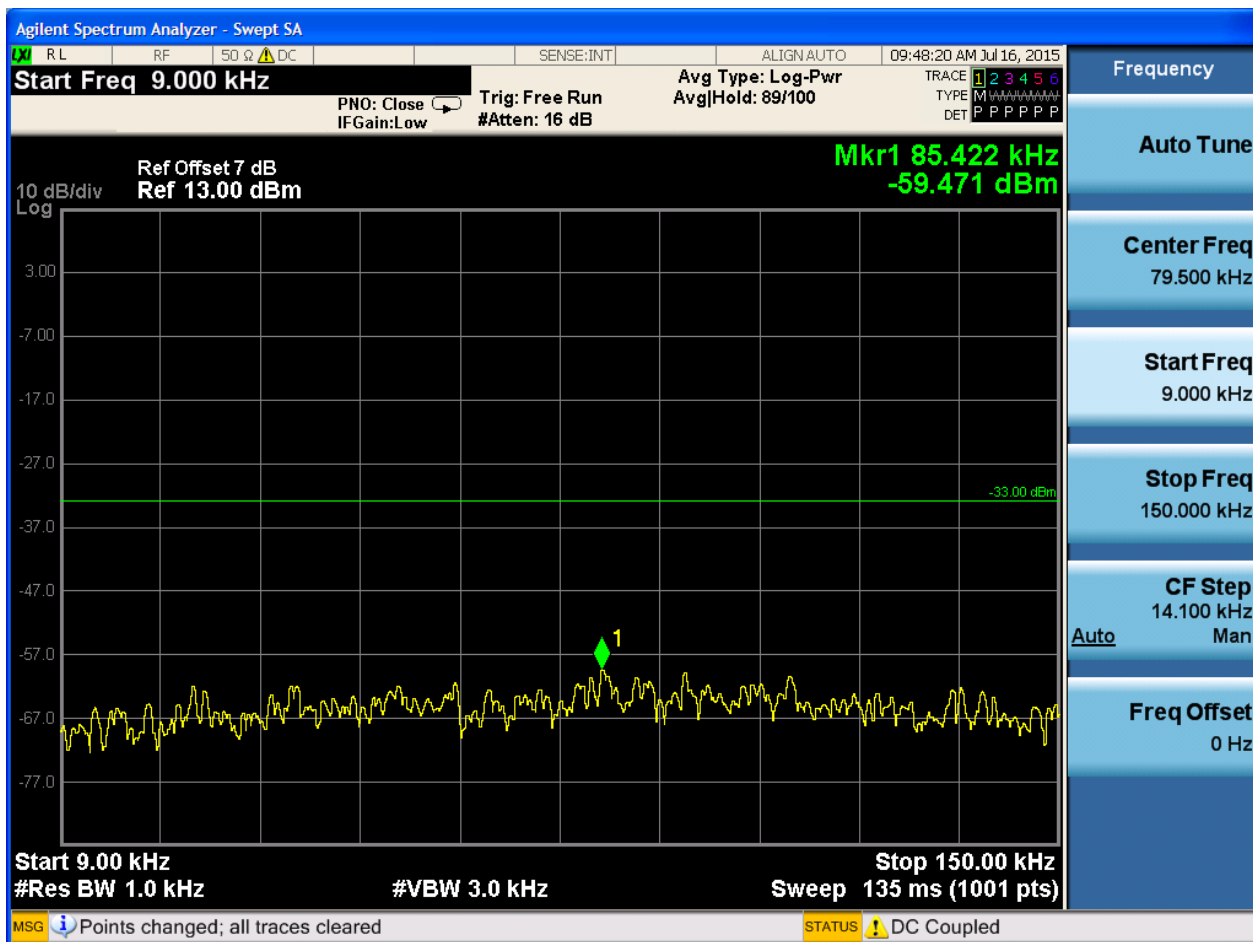


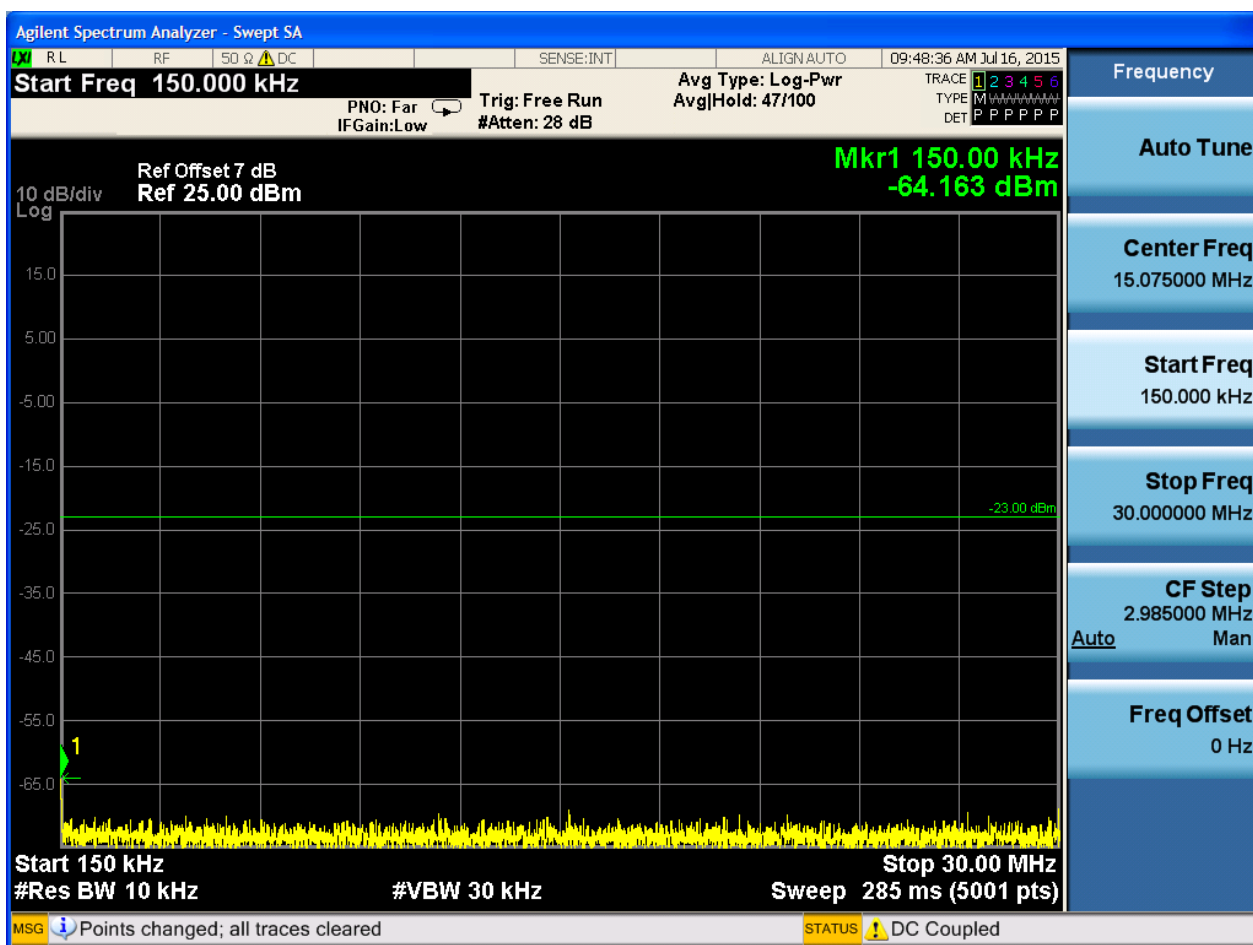


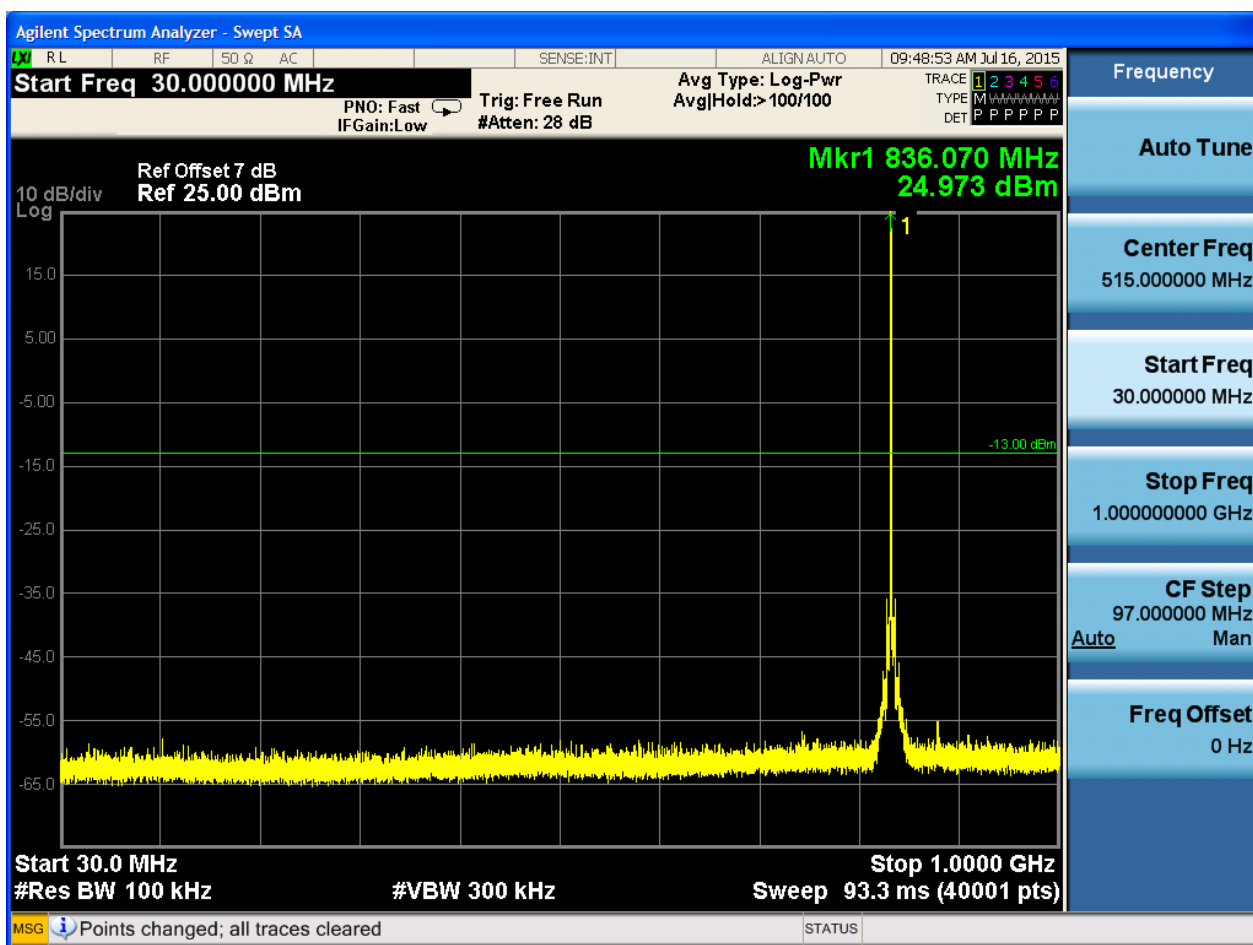


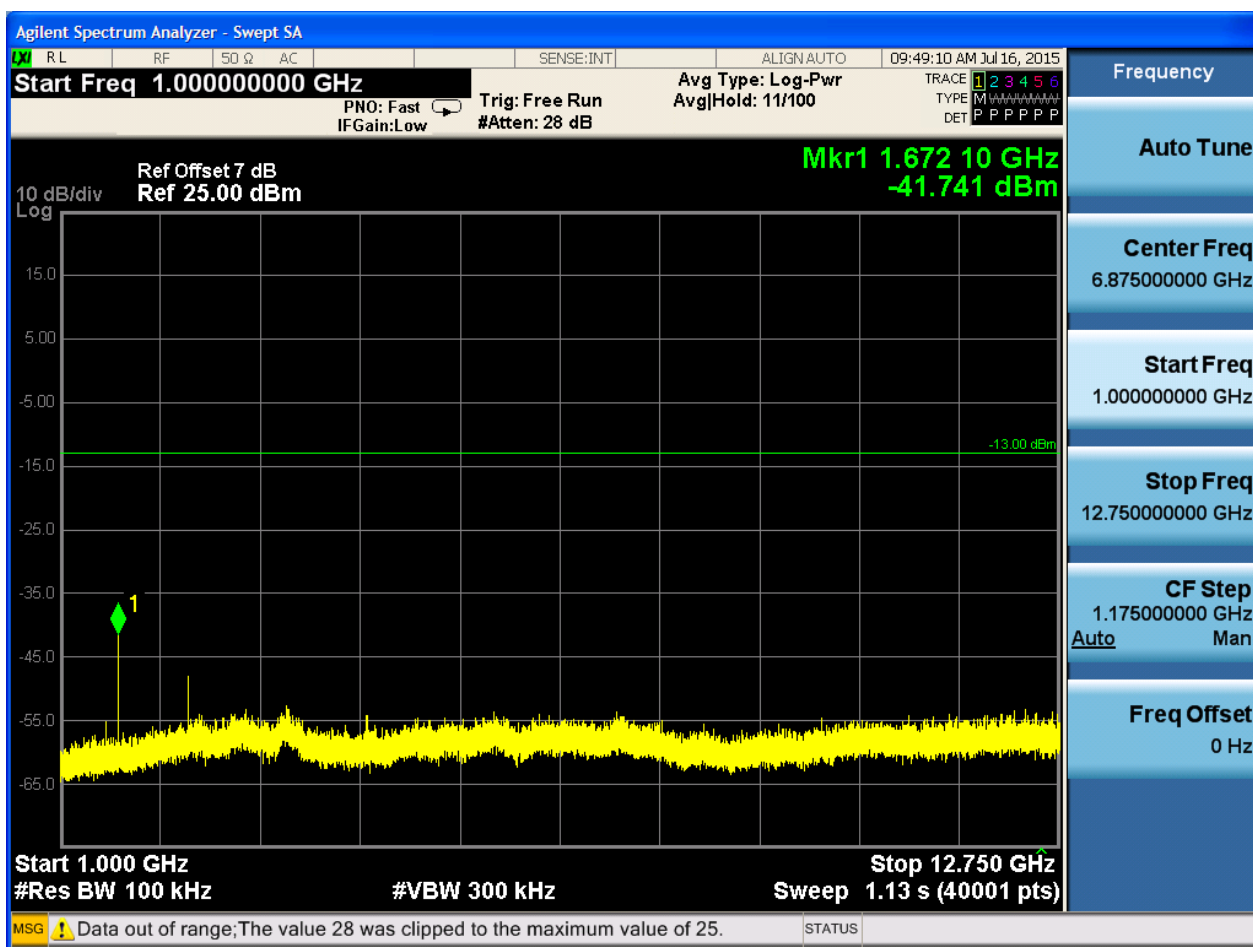
### 6.1.1.1.1.2 Test Channel = MCH

#### 6.1.1.1.1.2.1 Test RB = RB1#0



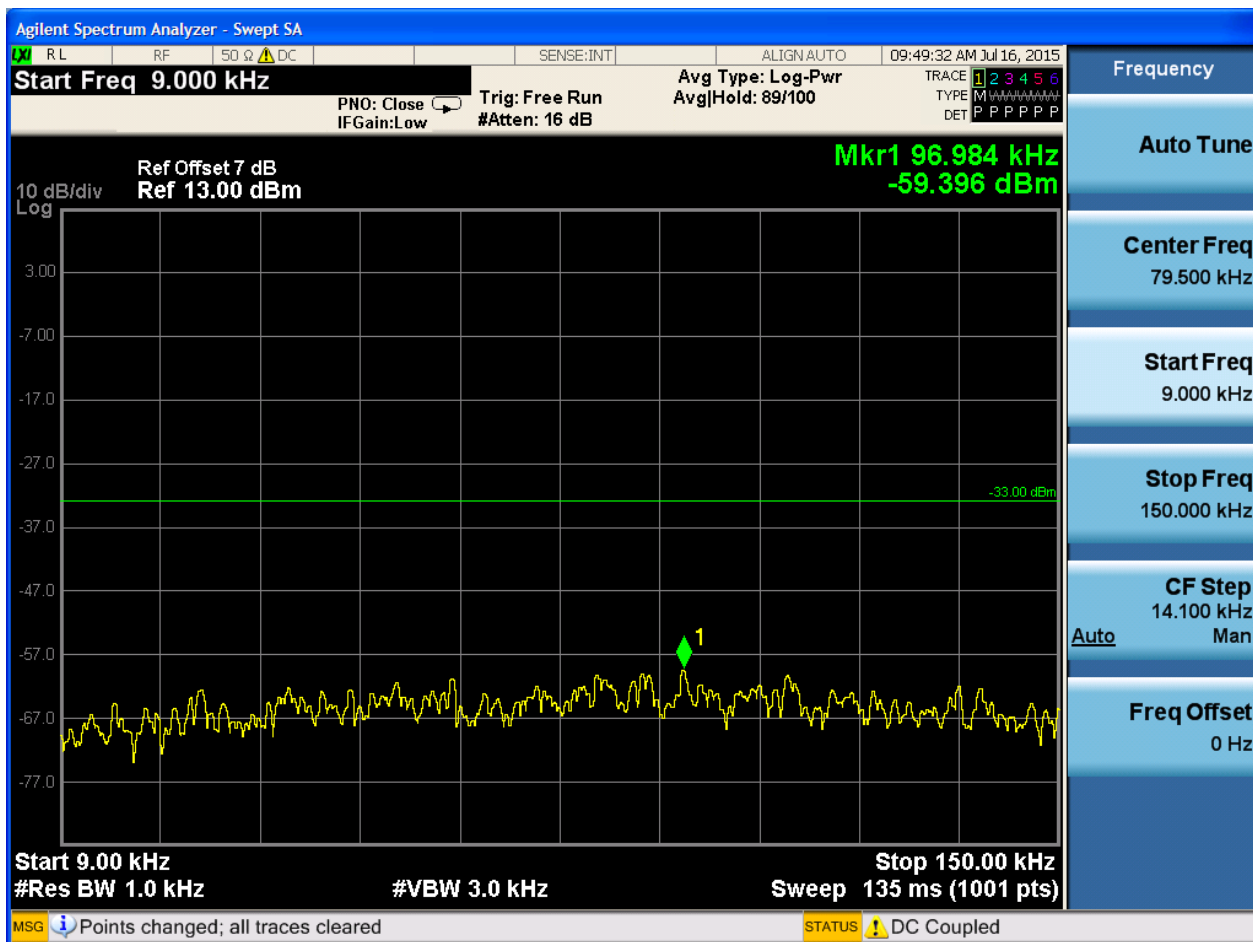


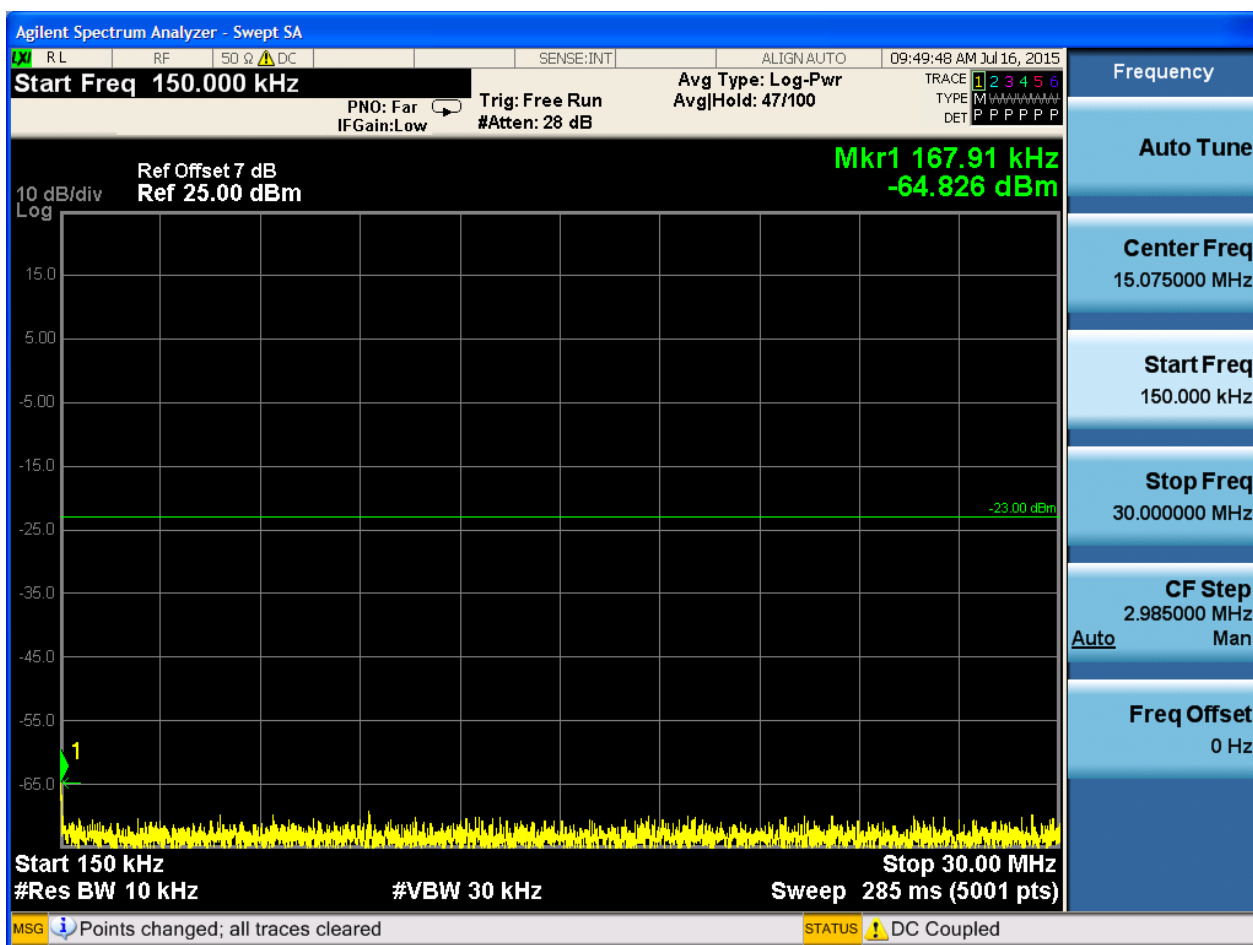


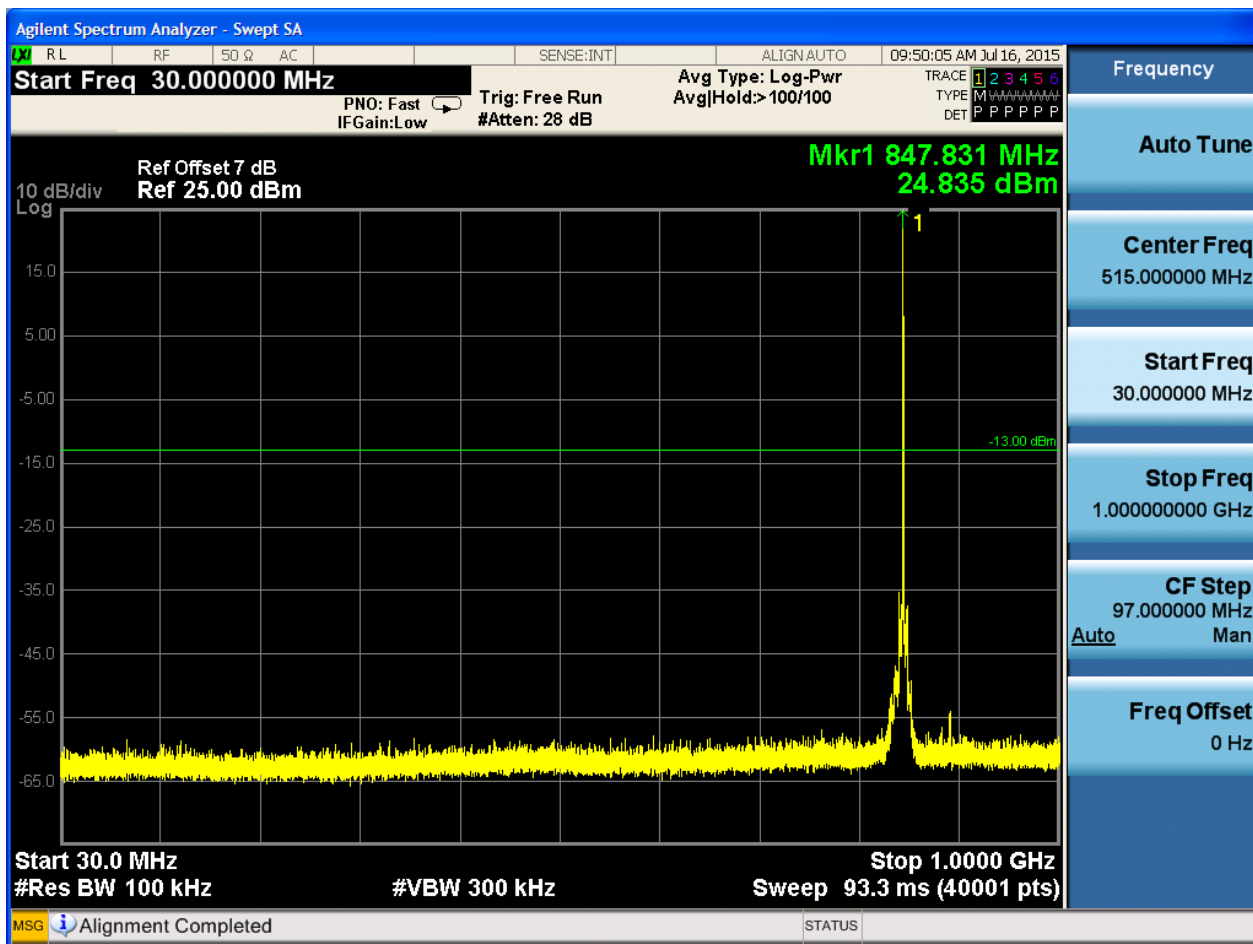


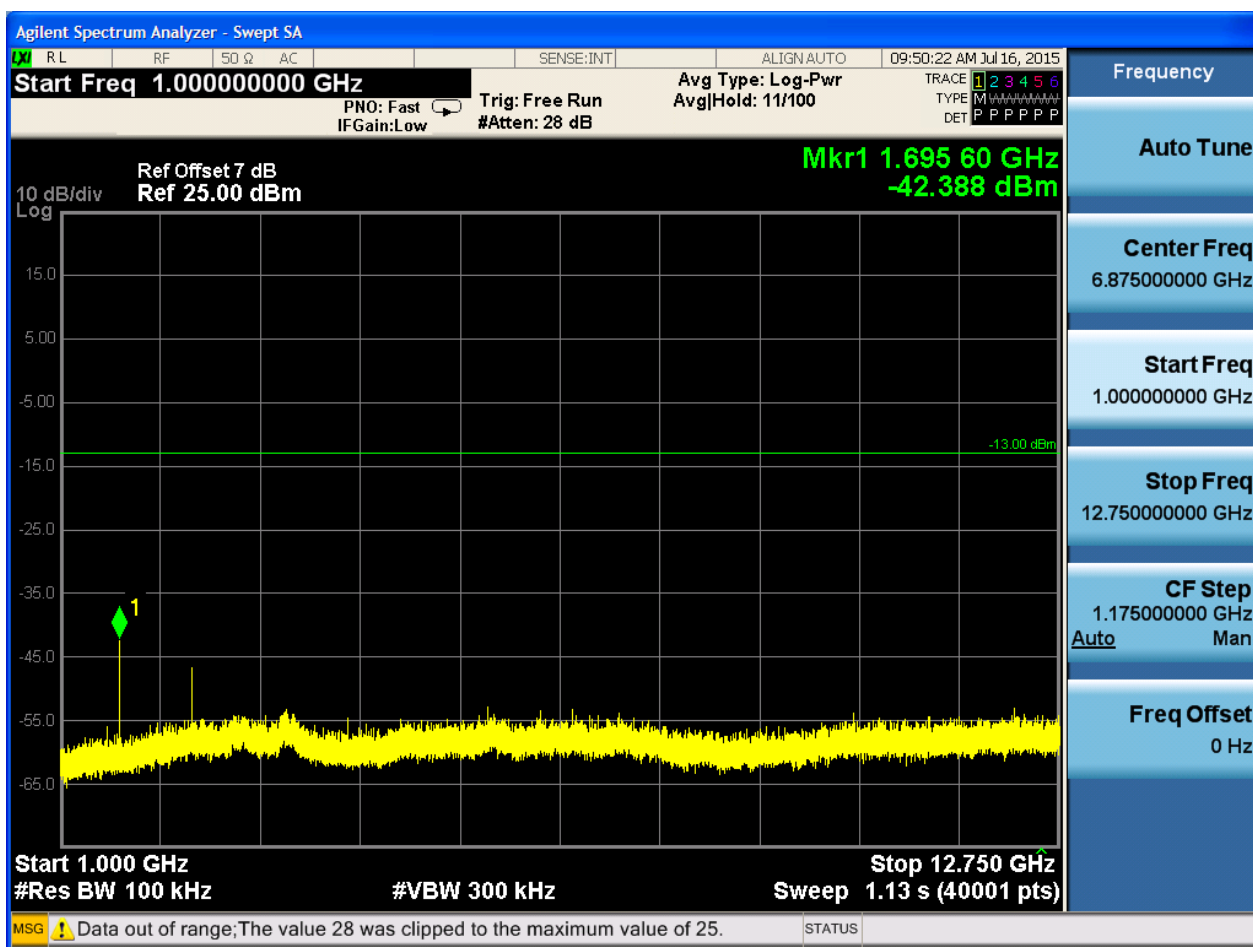
### 6.1.1.1.1.3 Test Channel = HCH

#### 6.1.1.1.1.3.1 Test RB = RB1#0





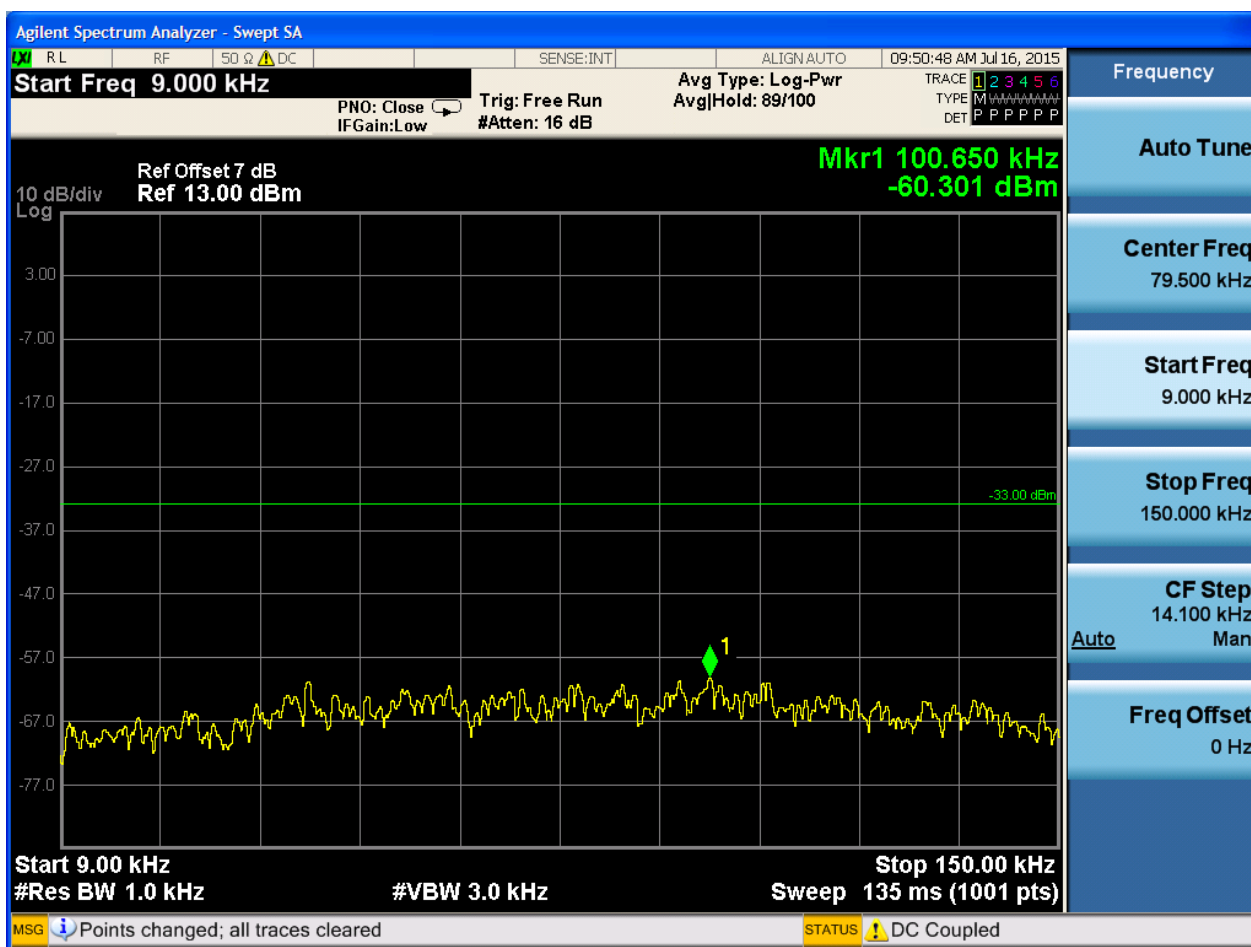




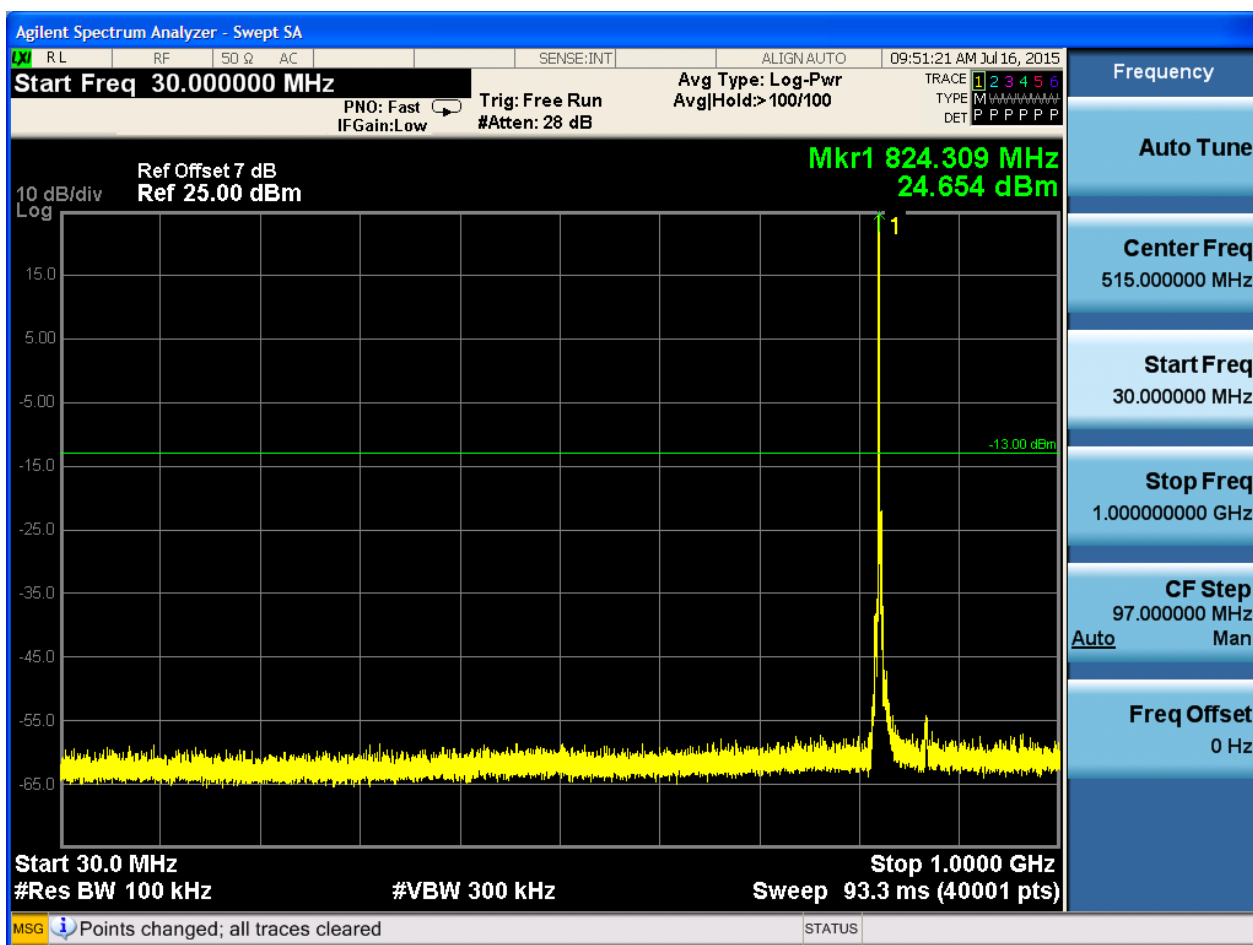
### 6.1.1.1.2 Test Bandwidth = 3

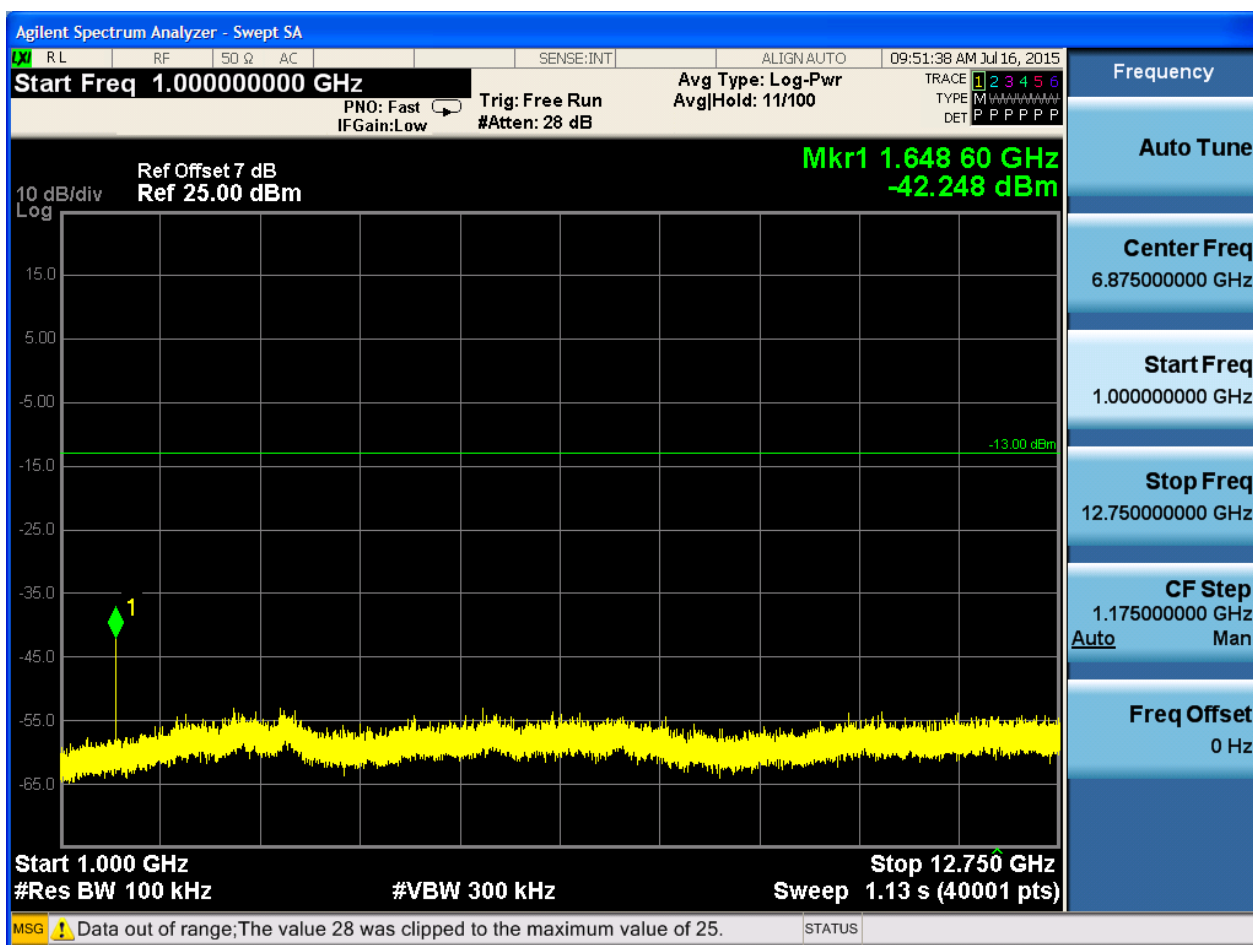
#### 6.1.1.1.2.1 Test Channel = LCH

##### 6.1.1.1.2.1.1 Test RB = RB1#0









### 6.1.1.1.2.2 Test Channel = MCH

#### 6.1.1.1.2.2.1 Test RB = RB1#0

